

aagcacctca agtttgagat aaaatTTTga agcagtagtg cattcaggTc aaaaatgaca 120  
gacaaggctg gcaacccagt cctgtagac aaatatgaat atacaaaatg tagcaaagct 180  
aagatggcga aaaactcaca catgttgagc cggttatgta tgacacaaca actgttatgt 240  
catcaagttt gccaccataa taacggaacc cagcctcttg agcagccgta gaaaatggTg 300  
tcggcctatt cctgtccagt gtcgttgac gagccagtac tgctatcttc tgagcagtta 360  
cttggggTtc tagtccagct ctaactgaat gtaaaacaac ttcagtgacc tcatcattgt 420  
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<210> 2659  
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<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051d09a1  
<400> 2659

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catagaactc acaaagttag acggtggagg aaaaccagtg ggtggcagtg tggggagagt 180  
gttatactct tctccagtgc acctttggga aagctctaca gtggtcgcaa gctttgaaac 240  
cgacttcacc ttttccatct catcagactc tactactcca ggtgatggcc ttgccttctt 300  
cattgcacca tttgacacta aaatccctcc aaactctggt gggagcaacc ttggactctt 360  
cccacagac aatgttgTtg ctgtcgagtt tgacacctac cctaatcgtg ataaggggga 420  
tccagattat agacacattg gtatcgatgt caactctatt gtctccaagg caactgctaa 480  
gtgggagtg gcaaatggca aaatagccac tgtacatatc agctataact ctgcctctaa 540  
gagactcact gttgtgctt tctatcctgc cactcaactg tgacactttt ccatgatatt 600  
gagct 605

<210> 2660  
<211> 460  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051d09d1

<400> 2660

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tatattagtt aattacacct ttagcctttt ttcactgggt cataagacgt atccctcaac 180  
caaaaaaata caaaggttgt gggggaactc ttctttgggt gccttttgtt ttttttaatg 240  
aaaactaaaa gcctaattat aataacaata tcaatcaaca tgctgcagaa ggattggcga 300  
aggggttgaa gaagtggaggc ttaggggcca tggagaatga tgtcttgggg gaaccgacgg 360  
cacggttgac ggcgtgacg acgagcctct ctgaagaggg gcacatggcg agtggtgccc 420  
gaggcatagg catgttcaac ggctgagcca gtttcagtgc 460

<210> 2661

<211> 91

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220051d10a1

<400> 2661

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<210> 2662

<211> 434

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220051d10d1

<400> 2662

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acaaaatagg aggaagagga gagaaacaca cagagtaaga gacgtggaaa gttatggata 180  
ttagacatat tataagggca acgctcaaaa aacttccagc atagagcagt ggaatgaatt 240  
acttaggcct tctaccactt gaggggtttg accacttccc atgtgaagtc agggctctct 300

cttccaaagt gtccataggc agcagtccttc aaaaacctgt tatttacacc cctcttgaga 360  
tcaaggttga tggagatcat accaggcctg aaatcaaagt tttccttcac aatgttgaga 420  
atttccttat catg 434

<210> 2663  
<211> 576  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051d11a1  
<400> 2663

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tcaatgtcac ctgtgcacca gtggcaaaac caacagtctg tgtcagagggg ttcacaggta 120  
cccgtacagg aacatccttc aacatctaata actgatcaaa atttgatgag atcagatgct 180  
aagtttagct atgaaatgtc tgttaatgga caaactcttc atagagacta tctggatgct 240  
cacattcagc aaggcgagga ggcacaaaact gtgatttctt caggaacaag tgaaacacag 300  
gtttctcagt cagtcgataa gactcaattt gttgcttccc aacaagatca aagcatgcaa 360  
caaatttctt cacagttctc tgaggcttta cgattgaact cttttgaacc aaatgggtgaa 420  
cataaggagc agaatttctg tgccattatc taataatgaa ccagatgtcc aagttttatt 480  
ggctgagcaa gcaacttctg ctggaaatgc attatctgtc acaagccatt cagttaatca 540  
taatgaaatg atccagagca atttcaactgg attctg 576

<210> 2664  
<211> 448  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051d11d1  
<400> 2664

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cattccacaa atatatattc acgccactgc cattcatcat ttcaattttc atccagtcta 180  
tggcatggaa tggaaacggg tctctatcgt cattaccaga gactccatca gcaataatgg 240

tgcattcatta tatgattata ttgatgatga taaacattgt gtcttgact ctaattctaa 300  
 caaagcttta tctgttctt ggagttggat ccaaccaatc ccgttatgcg ttatcgtgtc 360  
 ccgtgttggc cccccactt gccagttgcc accaaagata tattccctgc aaaacaaaca 420  
 ctagaacaaa ttattaatag cataaaaa 448

<210> 2665  
 <211> 583  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051d12a1  
 <400> 2665

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 acgactggag caaggaacag tcaactttcct acttgaagag aaggggggta ttaaagggtgt 180  
 gcactacaaa acgaaggata gtcaagaatt atcagcttgt gcaccctta ccgttggttg 240  
 tgatggctgt ttctcaaaact tgcgcgatc tctttgtaat cctaaggtag atgttcctc 300  
 tcatttcgct ggcttaattt tggagagttg tgaacttctt tatgctaata atggccatgt 360  
 catactggga gatccttcgc cagttctgtt ctatcggata agtagttcag aaattcgttg 420  
 tctggttgat gttcctgggc agaagggtcc atctatttcg aatggtgaaa tgacaaatta 480  
 tttgaagaca gtggtagctc cacagattcc acctgagctt catgactcat tcgtagctgc 540  
 agtggacaaa ggccacatta ggacaatgcc caacagaagc atg 583

<210> 2666  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051d12d1  
 <400> 2666

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 acccaaaaat acagataatt cgccagcttt atgtgcaatt tgtgtcccat tcaaattatc 120  
 ttcaatacga gtcaaggga taaaccctg ttctatgggt tccagataaa cgatactctc 180

aaaagtactg gtacgagtaa aaataccctc ttctttaact tctgttatta ttctgatgga 240  
 gtgaagctcg ttcataaggta tttcgagaat aatacgacga ttttttccag gaaatcccca 300  
 acgaacaaaa cgtacctttt tccctttttt attgaagata tcaaaaccac cacctatatc 360  
 ccaaaaaata atcgacccaa aataaaaact actaaagaga cccgcgattc cataaaaagc 420  
 catcgtggcc ccttgtggaa taaatggaaa ataaataaag tccggaataa aagaaaaat 479

<210> 2667  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220051e01a1

<400> 2667

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 acgaggggca ccttgacaag ctctgagacc agatctccga tgctgtgctc gatgcatgct 180  
 tggagcagga ccttgacagc taggttgact gtgaaacctg caccaagacc aacatgggtga 240  
 tgggttttcgg agagatcaca accaaggcca acgtggacta tgagaagatt gtgcgtgaca 300  
 catgcaggaa cattgggttat gtctctgatg atgtcggctc tgatgctgac aactgcaagg 360  
 tcctcgtcaa cattgagcaa cagagtcctg atattgctca aggtgcgcac ggtcacctca 420  
 caaagaggcc tgatgagatc ggtgctggtg accaaagtca tatgttccgc tatgccactg 480  
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 tcac 544

<210> 2668  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220051e01d1

<400> 2668

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ttgtcataca tgcattgtaa tgagtggata ttccaaagca attggtcctt ttatccctcc 180  
 ttaatcctta tgccgtaa at ggcaccatcc cttgtaaatt gtaattgctt cttcagaaat 240  
 agaattatac aaaggtagtt gcaatatcta ttgccc aaac tataaatgta aagacccttc 300  
 ttcccaatcc tagtagtgct ccaattgtat ttacaaaggt gggacaagat atgtatatac 360  
 aagtacaacc atgtaacata atgtaacaat aatcatactt tggctctttac tagtgacat 420  
 tacagggagt tattatgcac tgaaccctt ttgcagagaa ctccagggat tggaaggaat 480  
 actgacacac gcttgtgctg aagcctcagc catctggcca ttctttatcc ctacatcgca 540  
 gatgtttgca ag 552

<210> 2669  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e02a1  
 <400> 2669

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 gcggaatgaa agagtatcat aaaatgggta cctcgattca ctatacgta cttatatata 120  
 tcatggggat atctatctag attcttgacc cgatcttata tgctgatccc tattgcatgc 180  
 tagtatcagg agattgacta taatggacta caatgactat atgtccatac ctagcatata 240  
 agaagtctag tgataataga taagccaaga tatctcatac tatgatatac cctgctgcta 300  
 catcaaagaa gttctggcta tgccttatta ttattagtca acgaaatgaa acaatggaat 360  
 tgaaataact cactcagaac gccct 385

<210> 2670  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e02d1  
 <400> 2670

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agttgacaaa actgataaaa acactcccct gaaatgaact cagtctaact aaacaatcgc 180  
 ctgagacttg ctaaggatca ctccctcata tttcacctgg aaccacttca tagcatcctc 240  
 ctttgtgaca cgggtgctgga ttccaacacg ggacttgcac cttcggcgac gtcccacacg 300  
 atagccagga cgctccagaa caactaagaa gtccattcca -taaataccag ttgaaggatc 360  
 atacttgatt cccaaatcga tatgctcctg aatgccaaag cccaagcaac cagtatcact 420  
 gaagttcctt ctgagaagtt catattcctt cacctttaaa ccactttcca acagatgcat 480  
 tgccttgtca cctctgacag tga 503

<210> 2671  
 <211> 567  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e03a1  
 <400> 2671

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 gcatcttggt ttgtgtccct cttttaagct atttccttct cttaacacaa ttgggttggtg 180  
 caattgccat agtcaccaac caattaacaa aggtatatat atcatcatat catcaccaaa 240  
 tgaaaaatat tgggttggtt tttcttggtg tgggtggctac ttttgtggtg gcagccacag 300  
 ctggtagctt ttaccaagac tttgaaataa cgtgggggtg tgagcgtgcc aaaatctatg 360  
 agaatggaaa ccttctcaca ctctcccttg acagagcctc tggctctggc tttcgttcca 420  
 aaaaagagta cttgttcgga aaaattgaca tgcagctcaa gcttgtgcct ggtaactctg 480  
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<210> 2672  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e03d1  
 <400> 2672

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 ccagtaatat tatttactag tatttatata atacaggcta tatatacgta catatatata 180  
 gccaaaccaa gtattaaccc aaatttgcag aaaaagcaaa gatggatccg ctaattgatt 240  
 gatgtcagtg gtaagcagga aaagcattgg ctccaacaaa gcatgtcctc ttcacaaaac 300  
 gacctttcat tctaggcctt ttctctgcgt tcaacttctt tacttcatat cttatcttct 360  
 ttgcaaacia acgagtcctt ctcttctctc tataccttga cactcttgct tctcttcac 420  
 catctaggtg cctctttaag cttcttactt tcccacctac accactcaaa cccaaggaga 480  
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 tagaccgcag taataacctc atcata 566

<210> 2673  
 <211> 574  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051e04a1  
 <400> 2673

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 acgaccgttc cagcattcaa cgctggggtt actacgggga catcacctgt cccgccacca 180  
 tgcaggttct ccaaaccaga gatttcgttc ccaaccgaac cttacagagg ctcatccaga 240  
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 ccgaatcagt cctctccaag gaccaaattc tcgtcgccat cttcgagttg cagactcact 360  
 gcgcgaaccg cttcgactcg ctgcgcaaaa tcgcgcgttt cgcgcaagat tccgaggaga 420  
 acctcgattt tctcgttaga accggatgct tcgtgccggt gcttggttgc tttctcgaca 480  
 atgtcaatga cggcgtcgaa attctcggac aggtcggttac ggcgtggatt atgttgcag 540  
 aaaaatggaa gattgcgagg gctcgaaaat ttga 574

<210> 2674  
 <211> 357

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e04d1  
 <400> 2674  
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 cccggatgtc tctggacccc cacctccttt atcactgaac ggtcatttac gggccttaac 180  
 agaagaaccc ggctgtagac cccgcaccca caaagggcat aatttatccc ctaaaggccc 240  
 cccaagacc ctcgctcatt taaggccaca cctagccctc acagccagac ccccaaaacc 300  
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<210> 2675  
 <211> 551  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e05a1  
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 ataaagacaa tggaactatt gaaaggggtgc cgatcacagg aagagataat ggaagtgcctt 180  
 tctgcagtgg cttcggattt ggggggatgtg atcgatgatg tgaacacctt gcaggtgatt 240  
 ccaactgaatg gtgcattgac caatgaagtt ttccagataa actggccaac caaaaatgat 300  
 ggtgaggtca gaaaggttct gattcgttta tatggggaag gtgttgaagt tttctttgac 360  
 agggaagaag aaattcgaac ctttgagtgc atttcaaagc atggtcaggg tccacgcctt 420  
 cttggccgat tcacctctgg cagagttgat gagtttattc atgccagaac tctatcagct 480  
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 aatcttcata t 551

<210> 2676  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220051e05d1

<400> 2676

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aaagaaaaga aaatgatgaa aagcagcaaa gccaatatat aagcactcca gtcataaaac 180  
aacatagtagc acggtaacaa acaacatatg gtcccatcta tccaggctct tgtatacatc 240  
tcaaagtatg aagaatcaca tcataaatca attttcggag aaaaaccttc catcaataac 300  
agtctcactc tgcattctgga tattacctaa ttgattcatc tgccagctct gatgaggggc 360  
aacatgttcg tgcgaaggag tgtagtgctc ca 392

<210> 2677

<211> 464

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220051e06a1

<400> 2677

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tcccataata gggaatcttt aatcaaccta gattagctcc tttctcttca tgagcagcta 180  
tggtcatctc caaagaaata tggctcttta tttcccttc aatttggatt aaggccagcc 240  
atagtgtgtt tctctccaaa attggccaaa gaggtaatga aagacaatga ccttgagtgc 300  
tgtggacgac ctaaattact aggccaacag aaactaacct ataatgggtt agacatggga 360  
tttctctcat acgataggta ttggagagaa atcagaaaaa tttgtgttgt ccatgttctt 420  
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<210> 2678

<211> 312

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220051e06d1

<400> 2678

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 attttacaaa cttgggcac cctttttggc aaatctaatt atttccacag tttagggtcct 180  
 ggggaaactg ataagccatg aattatgcct gattttgatg gatttggatg ctaaaattca 240  
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 acctgatcag cc 312

<210> 2679  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e07a1  
 <400> 2679

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 tagtatcatg gttgcttatt gggaataatt tcgttgaacc ctgatgttgg tagtaagtat 180  
 ctagacagtt gcatagcggg tttgtttaca gaataagata tagcctctct gaacagtttg 240  
 attattgcac catggtttgc aatcggtgca tgtcgaccaa gtttctcaag actgtggaga 300  
 agcttattct tgttccagtt cttgaatcca agttgttacc gtattctggt attattgact 360  
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 tcaaacttat aaaaaaaaaa ataa 444

<210> 2680  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e07d1  
 <400> 2680

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 tatggagaat tcaacagctg ttaggaaatt catttcattt ccccgtttcc cattgtgtct 180

cagttcatag tctagcttcc ttccggggaa aattctcacc cttttgttgg caccagtaag 240  
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<210> 2681  
 <211> 568  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e08a1  
 <400> 2681

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 ttatcaaaag atggggtagt gctggttggg gaaaagaagg tcacattcaa actgctccaa 180  
 acctcaactt ccaccgagaa aatgtacaag attgatgac atgttgcacg cgctgtggct 240  
 gggataatgt ctgatgcaa catcctaata aataccgcaa gggccaagc ccaacgctac 300  
 acatacgctt atcaagagcc catgccagtt gagcagttag ttcagtctct ctgcgatacc 360  
 aagcaagggt acaccaatt cgggtggtctt cggccatttg gagtttcggt cctatttgca 420  
 ggatgggaca taaactttgg ctttcagctt tacatgagcg accctagtgg aaattatggt 480  
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 gacttacagg atgacatcac atgagaag 568

<210> 2682  
 <211> 495  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e08d1  
 <400> 2682

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 ccaggaacta ccatgacata tacttgtaag atatatcatt ggatatctgc caacatagta 120  
 taacttactt ctgccagaaa ttcgctttcc tgctttagaa ttggcttaaa ataaaaataa 180

ccgtagaagt taaatttcaa ttaaactaac tacttctacc agaaattaaa gaaataaaaa 240  
acattgcaaa tgccctactt ctattgaaca cggttctatt accaaccatt ttttttaa 300  
catgacatta aaaacattta gcacttgcct atgtacctga gatgggtactc actaaccttt 360  
tctattacaa aagatattct aaggagaaaa aaagatagat ggaagttata acaagaggga 420  
aagggttgta tgcattcttg agcactttct gtggatccct ctgttgctag ggagatttca 480  
atggtccaat aatgg 495

<210> 2683  
<211> 560  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051e09a1  
<400> 2683

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tgcagaagtt caaaagattg aaaacttggt aacaccagag gaaaagcgac ggaatgctat 120  
aatgttcgac ttgctctttg tgaattcttg tcatcctctc tctgcgtgca taagtacact 180  
tgacaacaag tgtaaaaaaca tgcccaacag tgaacgggct gtgggtcaagg aaaaaatcaa 240  
tcccaaagaa agggatacat gcagtgggtg aatgaatggt tacatatcct tatgtgggtg 300  
agaaccttgc cctcctatct ttaggtctcc tgttgcaagc atggaagata tcatggacaa 360  
tcatgttata tgtgcaatat acagactccc agatgcacat acacacatta cccgaccacc 420  
tcaaggagtt aaatttccaa aaaagattgt tggaattgag gatttaaaac ctgaacctgt 480  
tttgtggcat gaagattcaa gcaggaaaca ccatgctgaa aatgggagga aaaaccctcc 540  
aggatctatt tttgtcgga 560

<210> 2684  
<211> 427  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051e09d1  
<400> 2684

ggtgctggag ctctttgagc tctagatgaa attttaaagt ttaatcgcca aaatgcttgc 60

caacacaact tattctcata cttacatcaa actattctaa caagcataat taccaaaacc 120  
 aagcaacgta caattcctct tataacaata gagtaggaca gggggataaa ttatctatctt 180  
 atttgacatt aaagtgaaca tcagtacagt tgactttgta gcaccctgat tacaggttct 240  
 tcattcattt gactctgaat ttgaaacat acatgagtag ctacatgtct tgctttggct 300  
 tccggctcaa ttctgagtaa tgaccacca ttagctgcaa aatctgcttc caciaacttt 360  
 ctgaagaatc tgataaagcc ccacaaagca aacttgggct acatgcagct tcataccaat 420  
 aatctga 427

<210> 2685  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220051e10a1

<400> 2685

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 gtgctacctt caaaaactgc tattgccct gttaatccaa ctttttgcc caggctcgaa 120  
 gatgaaaggg agatgtgttc aagaacaatt ttattgcaca aatattgaca agaagcttac 180  
 tcaagccgat gtcaaacact tctttgaatc ttttgtgga gaggttcaac ggttgaggct 240  
 tcttgagat taccatcatt caactcgaat tgcttttggt gagttcacag tggctgagag 300  
 tgcaattgca gctctaagct gtagtggggt gattctgggt tcaactgcca taagggttaag 360  
 tccatcgaag acaccagttc gatcacgtgc tcctcgccct actatgcact gaatcaactt 420  
 tccatgtttc tggggttgat tgctgctgag atatatttac atatatatat atacatagaa 480  
 acagctgtgt tctaaggaac atgtggcatt tagttggtac tttgtcctc atgtcttaca 540

<210> 2686  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220051e10d1

<400> 2686

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aggaagacag tccaatatga aaaatatagt aaaatcatct caaacttggc atcttctctt 120  
 tgcacctaag acattgagaa ttctaagaat gttacacgca agtcccatca caacttctag 180  
 cacttggatc agcacaacct tcaggaacag aaatatttac ttgccaagtt tgctttgcct 240  
 ccaattcaag attggaagaa agttcccctg ttatagcat cctcgtagc atttccaagt 300  
 gcagcctcgt tcaagtactt gtcagccaat tggactctct tgacattctc ttgttcttgg 360  
 acaagcatgt taccatacgt caagagcttc tccagagtca tcttgggctg ctcaaaggtt 420  
 ggaggtccat cttttgagtt cacaagcttc ttcccaat 458

<210> 2687  
 <211> 573  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e11a1  
 <400> 2687

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 ggtaaggaag agagtaaata tagcgaggag agcgtgaagc tggtcgtagg tcaagtgccg 120  
 aagcgcattg cggaagacga aggtgcttgc aattgttcaa ggagctcgtc ttgggtgacg 180  
 aggtcaacat catcagagac aaagccactc gtgcctcccg aggttggtgc tttgtaattt 240  
 gtccgtccag ggaagaagcg gataaggcgg tcaatgcatg tcataacaag aaaacgctcc 300  
 ctgggggtgag tgagtgggct tcggtcctgc acgcatcttc attctttgct tttcagaacg 360  
 ttcagagtgg aatggatttt tttttcttcc ttttaaccct ctgggtttatc aggaaaaaga 420  
 tgacatgatt aatgcagagt tcagccagaa gaaaaattaa gcctgaccaa taattatttc 480  
 tcccaaagat ggaatgaaat gttttgaatc ctagtgttga atagcagaat gaggggctgc 540  
 ttctataaaa gtcgctgatg ctgaccacca cca 573

<210> 2688  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051e11d1  
 <400> 2688

aaggaaaaaa gggaaaggcc ccaaaataaa tttaaaggggg cccctttaac caaaaaattt 60  
aaagggagac ccccccaaaa gaaaaaaaaa aaaaaaacct tcaaaaaggg ggagtccttt 120  
tttgccccca aaaacttaga aaatgaaaaa agggggcccc ccaggcccaa aaaaaatttc 180  
aaccctggga acaaaaaacc ctttagggac aaaaaatttt ccacgcccaa attggtttcc 240  
cccccaatga aaaaggggaa aaaggtcccc cggaaaaaac caaccgggg ggaattccaa 300  
gggccgcccc ggtcaagcac catgcacaca aacgggcctt tta 343

<210> 2689  
<211> 98  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220051e12a1

<400> 2689

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tgtggtagcc agacatatct gctaagaaat tggttcat 98

<210> 2690  
<211> 373  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220051e12d1

<400> 2690

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gggccccgct aaaaaaaaga acccgatata caaagggggg aaaacaaaag aaggattag 120  
cattagggaa aaaaaaaatg gcggcgggaa agttaaaaaa ggggagacat cacagggggg 180  
aaccagggat gaacatgggg gaacaccaag caatacaagg gggaaaaaca aaggggaaaa 240  
gggggcccc caaatccct taataagggg atctaggagg gcccaaagg agagaaaaat 300  
ttagaaccgg gcacctcata tggatatata ccgggcttcc atgaaaaagg ggaaactgcg 360  
caaaaaagg gga 373

<210> 2691  
<211> 547

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051f01a1  
 <400> 2691

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 ccacctaata ccaatgatcg agttcgccaa gcgagcgggt cgctaccata acctggccgt 120  
 caccttcgtc atccccactg acggcccacc ttctaaagcc caaaaggccg tcttccaggc 180  
 cctcccggac tccatttccc acaccttcc cctccgggtc aatctctccg actttccacc 240  
 gggcaccaaa attgaaaccc tgatctccca caccgtcctc ctctccctcc cttccctccg 300  
 acaagccttc cactccctct ccttcacata caccctcgcc gccgtcgctg tcgacctctt 360  
 cgccaccgac gccttogaag tcgcgcgcga attcaatgcc ttcccctacg tcttctaccc 420  
 ctccacagcc accgtactct ccatacgccct gcaccttccc accctcgaca agcagggtcca 480  
 gtgcgagtgc cgagacctcc ggaaccgggt accaatcccc ttgcattctt cttccgtcag 540  
 gactttt 547

<210> 2692  
 <211> 567  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051f01d1  
 <400> 2692

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 aaatattata gtcatacagc tgcagctttc agggaaagaa aatctgaaat tttattggta 120  
 taaaagtctg gctgtatgga gttgttaggg ctctgaagca tggccagtgt ggtgaccctt 180  
 gagagcacia gaagagtttc gcaaccaaca tggctccac catctataat ttttcgtatt 240  
 ctaaaagggtt ttcagagtca ttcaattctt caaaatcaaa aagagagtca tccagttcca 300  
 acatccttgc tttccactcc acagctcaat ggaatgctca ttataaagcc accaaagaaa 360  
 ctaacaaact gatggtactt gatttcacag ccacatggcg tggaccttgc aaactcatgg 420  
 acccagttat ccaagagttt gctggaaatt acacagatgt tgacttcac aagattgatg 480  
 tggaggagtt aacggaagtg tctcaagcac tccatgtcta ccaattgcc aattcatac 540

tcgttaagaa aggcaagttg ctgatag

567

<210> 2693

<211> 506

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220051f02a1

<400> 2693

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gaggttcgag aaggaggctg ccgagatgaa caagaggcca ttcaagtatg cctgggtgct 120

cgacaagctc aaagctgaac gtgaaagacg aattaccatt gatattgctt tgtggaagtt 180

tgaaaccacc aagtactact gcacggtcac tgatgctcct ggacatcgtg actttatcaa 240

gaacatgatt actggtacct ccagagccga ctgtgctgtc cttattattg actccaccac 300

tggtgggtttt gaagctggta tttctaagga tggacagacc cgtgagcatg ctcttcttgc 360

tttcacccta ggtgtgaagc agatgatctg ttgctgtaac aagatggatg ccactaccct 420

caagtactct aaggctaggt atgatgaaat cgtgaaggaa gtctcttctt acttgaagaa 480

cgtttggttac aaccagaca agattc 506

<210> 2694

<211> 274

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220051f02d1

<400> 2694

aaaattaaga acatttaata tattatactt tgtcaaaaat gtattgtcat cttttagttt 60

ttaactcctt cattttcagt ttttcacttg gtcacatgaa acacacatca tatcatacaa 120

ttactgttat tgaatatcat gtcaagtagt tcaacaaact ttagcccaaa aggaatgtgg 180

gaagataaca tttttttttg tgtgtacgcc ttggaaccta tgatctcatg tattctatcc 240

caagtttccc accactaggc caaccagtg gggt 274

<210> 2695

<211> 600

<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220051f03a1

<400> 2695

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aaaatataaa caatatctag gggtttctctt tctcttttgc attctctctg aattcgtatg 120  
ccatggagtc acccggaac gagcatgtgg tgggtggcgc agaaccaac gacgtcgta 180  
cgcccttttc ccacagagaa gaacctcaca attcccaacc cctcaccggc gacggtgcca 240  
gtcccggaag gatatttata ggtggttttag cgagagaaac gaccattgcc caatttatca 300  
agcacttttg taagtatggt gagatcacgg attcagttat catgaaggac aggaaaactg 360  
ggcagcctcg tggattcggg tttataacat atgcggatcc ctctgtggtc gataaagtca 420  
ttgaggaacc tcatgtcatc aatggcaaac aagttgagat taagcggacg ataccgaggg 480  
gagctgttgg ctctaaggat ttaggacana gaaaattttg taggtgtatt cttcaatgt 540  
gactgaagat gaattagaga ctcttacac gctaccgca aattaagatc accaataatg 600

<210> 2696  
<211> 596  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220051f03d1

<400> 2696

cacacaatca gaatacataa gttgaataac ttcaagagct atacattgct aatcaatca 60  
aagaagaaaa tccataacat aaaatgtttg aacattggca ttcataattg ggaaagggtca 120  
accaatccta gtaccaaacc tgcatttcac aattgtagca cttttcattc tcaacctctc 180  
tctgacatac attttttcgt catcatcttc actttttacca caaggatagg agcccatagc 240  
cactgagcca cttttccctt aactttcacc agaggagctt cccctgatca aggagccacg 300  
acggttgcca ccaacaatca catctttgag tcgatatatg ggagcaagca ccctgctcct 360  
cgctcatca tttatactga tttgccattt aagttgtaaa gctctttcct gctgccagcg 420  
ttgaccaagc attacaagac ccatcacagc agctgcaatg aagacagacc agaatgcatt 480

tgcctctttg gcatgagcat ataaggaggc agctctccgc ttccaccaag cttcacaagg 540  
aagatctgag gagttgtatt cattatcttt gggaagagag ttgacaatg atagat 596

<210> 2697  
<211> 556  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051f04a1  
<400> 2697

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ttttggtggt cctgaaggac cagaattcac tggtgggttg gatgtacctt tgagcgagtt 120  
gaaggtggag cttcttaaag aaagtgtgtc catcattatg ctgactgggt taggtggatc 180  
aggaaaaacc actttggcta caaagctttg ttgggatgaa caagtcatag gtaaattcaa 240  
ggaaaatatt ttatttgtca cttctcaaaa aaagcctaag ttgaagatta ttgtagaaag 300  
actatttgaa cattgtggat atcaagtgcc tgagtttcaa agcgatgaag atgcagtcaa 360  
tcaattggga cttttgctga ggaaaatgga tgcaagtcct atgttgctgg tcctggatga 420  
tgtctggcct ggctcagaag ccttagttga gaaattaaag ttcagatata agattataaa 480  
attttggtga cttcaagaat agcattccat agaattggca ctccattatt ttaaaacctc 540  
ttgttcacaa tgatgc 556

<210> 2698  
<211> 461  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220051f04d1  
<400> 2698

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acagttaaag ttacaacgta caggaaaacc aattcaattt aatttctatc tcctattttt 120  
ctaattgatg aacgaattaa atgtaactcg agtcccctaa cagtaagtcg agcatgtcat 180  
tggaagtgag gagagttggt ccaccaacaa gcaactctat atcaggtctt ccactttcac 240  
ccaatgcctt atgagcttca cgcacctcga gtccattaat gcccacaata acaaacacca 300

aaatgacatt ttgatcggca agacttggtt tggcctgacc aaggccaaat cttccaaacc 360  
 cacttttaaa caagcgcccc acagtggaag aatgatattc taaccaggc acatcgact 420  
 tgcccaacac ccttngtagt agcttataag taatcctttt c 461

<210> 2699  
 <211> 520  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051f05a1  
 <400> 2699

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 ttcaatttca gggattctat tagggtttcg aatcgccaag agatttctca accctaattc 120  
 ctcaattcgc cctcgtgac ttcgatattc gtgggacgaa tcgattgttc ggtggcatgt 180  
 cggttgagat ccaagaaaat gtccaatatg tatgatggcg tgtgacaatt gggggaattt 240  
 tgggtgtggc gtttgttctg ttgattttct atggaaggca gaacagaaaa ctccaatgac 300  
 actacatgac ccaagaaatc aagatcactg gatcttaaaa gtctatataa atcaaatgg 360  
 acagaaaaca cggcaaagac gaacttaaag aggatcggca atagtagtgg ggggtggtgat 420  
 gagaagagga agaaaaaaaa ggctagaaag gaagtctctt taagtagctt agaaaatgg 480  
 gatggtagca gggagttgaa gttagggttg agtcaaagat 520

<210> 2700  
 <211> 292  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051f05d1  
 <400> 2700

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 gtttttgaca tttgcagtcc acgtgaaact gtaaacatct ggtaaaccac tataataact 180  
 cataaaaatg ttataaaaact taggagttcc agctagaaga accaattaaa actgagcttt 240  
 acagcaagca caatccctgg tttggctcaa attatttcag cttcacagct tc 292

<210> 2701  
 <211> 533  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220051f06a1  
  
 <400> 2701

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 tcatccactt agtggcagtg ttgtctctct gttactaccg catcaccac ttcttctctc 120  
 aacctccaac agcgccatgg cttttcatga ctgctgcgga gcttcttctc tcgctgctct 180  
 ggttcttcaa ccaagccttc cgggtggcgac cgggtgcgcg gagcgtcatg actgagaagc 240  
 tctcgagtga ggagaagctg ccgggggcttg acatcttcgt gtgcacgctc gatcccgaga 300  
 aggagccac cgtggaggtc attgacacca tcatctccgc cgtgtccatg gattaccctt 360  
 tcgacaagct ttccgtctat ctctccgacg acggcgggtg cgacgtgact ctctatggga 420  
 tccgagaggc tgctgaattc gtcaaggagt gggttccgtt ctgtaaaaag tatggtgtga 480  
 agtcaaagtg tcccaaagtc ttcttctctt ccttcgcgga tgaggatcaa gag 533

<210> 2702  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220051f06d1  
  
 <400> 2702

caatcttatt tctcagtatt cacgtaaccag atatccttac aggtgtgcta tatataagat 60  
 gaacgccagt attctattgc tgctagtgcc actgcatagc atagtagcaa acaactttac 120  
 tatggctctt actagttaca atcccttcag cctttacata catgtaatca tttggaactt 180  
 tatttctaca ttctggtgac ttatagcgac aaaggggtgt agcctagcaa gtaatatcca 240  
 taaacatcaa ccatctactt gtgtaaactc tagagcattt gcacgaggat cacgtgcaaa 300  
 gattgctggt cttccagaat gactaaatgt gtaagggatc cccgctttat caaagattgc 360  
 tttcagcttg gaaacattac gaatcgcaat acacgtgaga cgatcttgac caccat 416

<210> 2703  
<211> 483  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051f07a1

<400> 2703

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tgctttttcc ttctgttggt gcttctagca cactttcatt tgggcataag ccaacttgag 120  
ctgaattact actctaaaag ctgccccaaa gctgaagaga tcatcaagga acaagtcaca 180  
caactatata acaagcatgg aaacactgcc gtttcgtggg tcagaaatct cttccacgat 240  
tgcggtggta agtcatgcga tgcattcatta ctgttagcga cggagagcga tgtagtgtcg 300  
gagcagacat tggatagaag ttttgggatg agaaacttca agttcgtaaa cactatcaaa 360  
gcagcgggtg agaaagaatg ccccttcaca gtgtcatgcg ctgacattga tgctctttct 420  
gccagagatg ccattgctat agttgggagg acccaacatt gaaatgaaga caggagagaaa 480  
gga 483

<210> 2704  
<211> 488  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051f07d1

<400> 2704

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ggattataat gaaatcgga tttaatgcag atcaaaaaga aggaaagcaa tggcatgatc 120  
atccccatca atgaaacctg tatagaagga tacttcaatc aattatgggtc atgaaagggt 180  
cacgtaggag gaatttctgg tttttcgggt aacatctttg agggtttcaa cttccatacc 240  
aacggatcct tatcaaaaag gaactaagta tcttaagcaa tgaactaatc aatatctggc 300  
aatgggtgtt tccaataatt ccatgagttg tagtctctct gctcgaccaa agaagttgga 360  
ggaaacatgt cattgacgag ggtatgtaat gacgtatacg actttgcacc aatacgggtga 420  
ctaatagcta cctcaccctt acggttgata aataatattt tgccttcgg gactccaatc 480  
tttctgga 488

<210> 2705  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220051f08a1  
  
 <400> 2705

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 aaatggaacg aatctgggag agcgataagg agaagtatta tgagactggt gttgctctaa 120  
 tgtctgatca agaagaagg gatttgtatt tagataaact gaagatactg acttctaaag 180  
 agtcaaaaac tgaaaacacc caatactact ttgttagctg gccagataaa aacatagttc 240  
 aggttacaaa tttccctcat ccataccctc agcttgcac attgcagaaa gagatgatca 300  
 gatatgaaag aaaagacggg gttcaactta ctgctacatt atacctacca ccagggtaca 360  
 atccatcaac agatggccct ttgccatgcc tggtttggtc ttaccagga gaatttaaga 420  
 gcaaagatgc tgctggacaa gttcgtggtt ctccaaatga atttgct 467

<210> 2706  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220051f08d1  
  
 <400> 2706

aagtacgtaa aaaaatgata ctaggaaacc catatttgaa catccccaac cgtaagatct 60  
 atcaaatac cccaaagcaa gataagaacc acatcaacaa cattggccca agctatatcc 120  
 acacaatata gtgacaattt acaggaaaaa aacaaatata ttttaaagca gaacattggt 180  
 tctgaaacta tcaaatttac tgggggcttc cactgtatca aaaccagacg gaccaacctt 240  
 agttgtcatc atttatccaa ctggtttcat cttctactag cttgtagatg ctgaaatggc 300  
 tgaccctgat cttccactct ctttagtggt gatcatatga taaaaattca gcaccttggg 360  
 cctcagcctt tctcttgagc atctccttgg atttctcaat cttcggtcct tctgtatact 420  
 gatggccagt ttttttgctg aaacatttta tggtga 456

<210> 2707  
 <211> 592  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220051f09a1

<400> 2707

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 ctcaacagag tttcttcacc aaagctttga atttcttatg gcaatctgga gaatcagggt 180  
 accaacacgt gtggccggat atggaatttg gatgggaaat tgtgttgggt acttttgttg 240  
 ggttttgttg tgccgcgttt ggaagtgttg gtggagtagg cggagggtggc atattcgctc 300  
 ctatgcttag cctaatacatt ggatttgatc caaaatcatc cacagctatc tcaaaatgta 360  
 tgatcatggg tgcagctgtg tcaactgttt actacaacct taagctaagg catcctacgt 420  
 tgaatatgcc catcattgac tatgatttgg cacttctcat tcaaccaatg ctcatgcttg 480  
 gcatcagcat tggagtggtc cttaacgttg tatttctga ttggattgtg actatattgc 540  
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<210> 2708  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220051f09d1

<400> 2708

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 agatcaaagc tcaatgcaac accaaggatg ccacaaaacc ctcttatttt gaaacctatc 180  
 ctatattaag cctctacagg agcaagagct cgcagctctc attgtacctt aatccactgt 240  
 tggctgaaac ccaaccataa taataatata aagcaciaac ttcaaaggaa cgaatgattt 300  
 ttgctcaagc atcatcaaga gcaaggacac cagggagtgt ctttccctca agaagctcta 360  
 agctggcacc accaccagtg gagatgtggc tcattctgtc tgcaagtcca accttcttca 420  
 cagcggcaac ggagtcacct tcttcaatga tggttgtcac tc 462

<210> 2709  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220051f10a1

<400> 2709  
  
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 agtcaacaag cctcacaagt cccgcttttt ttacaaatct tctcgcaatc ttcataaaac 180  
 ctctgtcaag gacagactcg caatcgcaaa atcagagcgc aatgtcggca aaggagctcg 240  
 tgcagctcga attcagagaa ataaaatgat acgagatcaa aaaagagctg ctgttttgaa 300  
 agaaaaacga gaactcagtg ggtcgagaag tctctctcga gtgatagttc tcttcgccct 360  
 ctgtgcgtct gtggatttag aatcacttgc tgatgatctc ttgtcattat tatctaaaga 420  
 tacgtgtgtg gtgctgtcag gaaccgttgc ttcttctgaa tataggacan gaattacggt 480  
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<210> 2710  
 <211> 619  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220051f11a1

<400> 2710  
  
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 agaaagcaac aatcttcac c aatatacttc atcttgttca cctcagctca ctcttctctt 180  
 catcttcttg cagctcttct accaaaggct ccaaacaac agcatcatta gaagtggtag 240  
 acaaacatgg gccatgctcc caactaaatg atcatgatgg caaagctaag tctacaacac 300  
 cacacagtga cattctgaac caagacaaag aaaggggtgaa gtacattaac tcaaggctct 360  
 ctaagaactt gggccaagat agtagtggtg aggaattgga ctcagctacc ctaccagcca 420

aatctggtag ccttattggg tctggaaatt actttgtggt tgtgggtctt gggacaccca 480  
agagggactt gtcactcatt tttgacactg gcagtgatct cacttggact cagtgtgaac 540  
cttgtgctcg ttcttgetac tagcagcaag atgtaatatt tgatccattc agtctacatc 600  
atattccaat atacatgtc 619

<210> 2711  
<211> 480  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051f11d1  
<400> 2711

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tcctagtata gtagatgcta tcacacatac aatcatactt aattcgatgg aattgtctga 120  
tcttaagggg gcccttcgat aatttcgcac gtgaggagtt atttcttggg ttcgtccagt 180  
cattaataac ttgattatct ttaaataata gtagatagaa acaacactcg taaggagtcc 240  
tattgaaact aagaaatata agcctgcctg ccatccacac cagaataaat aaagttttcc 300  
gaaaaaacct gatagtggag gaagacctcc taaggataag agacataggg ctaaagagag 360  
agccaaataa ggatctttcg tgtataatcc tgcataatct tgaatgttat cagttccggt 420  
acgtagacca aatgatacaa tgcaagcaaa agttcctaga ttcatcgaga tatagaacag 480

<210> 2712  
<211> 618  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051f12a1  
<400> 2712

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aacatcatgc acctgtgact gtgattcaat attaatgggt tgtcaagggt attaagaaat 120  
ttgttccggt aaaaaaatat catgtattag aaattgaggc taagaataat ttataaaaac 180  
ttttttaaaa tcacttaa atttttaagg acaaaattgt gcatgaaagt aaaataaata 240  
aaaggcacia taccttaa atgtgaagcct aataatatga aggacgcgag tttagaacat 300

tgacactagg aaggctaagc catacatgtg agctgcaata ccgcaagagc ttctagcctc 360  
 tttaccttta ttgggaggtg ttattctagt atactaaaag tgtctcacgt cttaccagaa 420  
 ttgaagttaa aaaatttaaa cacccttctt tctttaaaga caaaaccatt agaccttcat 480  
 gagagttaat gtggacaaca ctacactcga gtgagattat atatttctta ttgaaaataa 540  
 aaaatacttt accaaataat atcatgcttt aaatctttta agatttaatt acacatttaa 600  
 tctctataat ttttaaat 618

<210> 2713  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220051f12d1

<400> 2713  
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 aataaaaaaa cttaaaatta taaatataat tttaaattaa ttatgaattt atttacataa 120  
 tttattaaaa taatatataa tttatattaa atatagaata tcttttatat ataatttatt 180  
 tacattatta ttaattttta ttttaaaaa attatttcaa atatttgata ataaaaatag 240  
 ttttgttttc tttgttggtta aattaattaa attttttaat ttttttttaa ataaattgac 300  
 tgaattttta ttttaatttt aaaaatacta gattaattaa ttttatctta atattttgat 360  
 taattttaat attgaattaa attattaaaa aattaaatat ttttaatttt agttgtttat 420  
 ttttaatttt tataataatt gaaatatttt tttttatttg ataa 464

<210> 2714  
 <211> 569  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220051g01a1

<400> 2714  
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 gccgatggcc acgatcggag gcttacacga ctcccaaggc tctcaaaaca gcgtcgaaac 180

cgaagccctc gctcgattcg ccgtagacga acacaacaag aagcagaatt cgcttctgga 240  
 gtttgctagg gtgggttaggg cacaggaaca ggttggtgct ggtaccctgc atcaccttac 300  
 tcttgaggct attgaggctg gtgagaagaa gctctatgaa gccaaagggtg gggtgaaacc 360  
 atggctgaat ttcaaagaac tccaagagtt caagcctgct ggtgatgcac catcgtttac 420  
 ctctgctgat cttggcgta aaaaggatgg tcaccaacca ggatggcaat ctgtgccaac 480  
 acatgaccct caagttcatg atgcagcata tcatgcgac aagaccatnc agcacacgtc 540  
 taattcacta gtaccctatg agcttcatg 569

<210> 2715  
 <211> 499  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051g01d1  
 <400> 2715

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 aagcaaaaat tttccaacca tatcaagcta ctgagaccta aatttggtgga tacgggtgaat 120  
 actccaaaga catcaatgcc aaagccagaa atctcgatac ttccacatct taatttgaaa 180  
 atgtaaaaat gacaaaggaa gagtgtacag gtaatttggt gtattgttta agaaaccttg 240  
 cctctaccat acaaagcatt aagtccttaa cgacacatt ctactgcagt tgtttaacag 300  
 ttccaatgat gcttgctgtc ctaccctaaa gcccgtgga cctactgtcc catgttaggg 360  
 ggcggaggag gaagacggac accctgaccc tgcataagggt gggaaggaaa accttgggga 420  
 ggtggcattg atggaggtct agcacccatg ttgaaaccog atgtcccact tgcaacaggg 480  
 ggtggtggtg gaatagatg 499

<210> 2716  
 <211> 636  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220051g02a1  
 <400> 2716

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agaactaaga gggatatagac atggctagcg caattgcagc ttcttttttg gttctgcttc 120  
tggctttccc cactgtattt ggagctgacc atgaagttgg tgacactagt ggatgggccc 180  
tcggagttaa ttacaacacc tgggcctctg ggaaaacttt cacagttggg gacactttgg 240  
tgttcaagta tgactccact catcaagttg atgaggttga tgagagtga tacaacagct 300  
gcagctcaag caacagcatc aagaactacc aagatggaaa ctccaagatt gaattgactt 360  
caccaggcaa aaggtacttc ttgtgccccca ttccaggcca ctgtgctgga ggcattgaagc 420  
tgcaaattaa tgtggctgct gctagtggga ccccccaac aacccaagt ggcacccac 480  
caaccacccc atcaaaccct tctncttct ctcctctga gtcaggatcc accaacacca 540  
ctttaccacc aaagcctagt ggagctgtac tggtttcagt ggcattggcc ctttggtggg 600  
gtcttcttgt gtcaacatta tgttggttca tggcta 636

<210> 2717  
<211> 566  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220051g02d1  
<400> 2717

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acaaaaacaa ataatatgag atgtttatga gaatttcac caccacagac cgttgtgttc 120  
cttaattaat ggacaaaagc taaacttagc tcaatttctt ctatcccaag catttgagtt 180  
tcaagcacag gcaaatttcc atcttatgaa gtttattttg cacacatgta tcggagaata 240  
tactacctgt tagcaacata tgaagaaaaa gcgtgctatc agctatagct acagccatag 300  
catcatatta atttttggga ccgatgtcct tcagtgaaca gatctgttct tctcccattg 360  
cagacataac agaaaccaca agatcttttc cttcagaaaa tccatcttta atctgagcaa 420  
gcaatgcctc atcagtagga agcttcagat catccttggg atttccatta tcagtcaaca 480  
gactcacaaa gccgtcttca gagatatcaa taagctgata gtcagtgcga ttcacatgtg 540  
gaacatcaca ngtgtgggat gatgga 566

<210> 2718  
<211> 635  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220051g03a1

<400> 2718

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tgctcttcaa atcactgcta gagacagcca gttcttcagc aaagtcaccc atttcgacaa 120  
agacaatgcc aaagtgcagc aactttccca acaagaagc accagaagta aacaagccag 180  
agcaacaacc acctttcatt cccgagactg aaaacagcta tggcctatat ggtcatcatg 240  
atgagtctaa ccaagtcctc tccaccaccc cgacttctta ccaccctac aagaccaagt 300  
ttgagaactc caacaacaag tactacaaca atgatgccta taacacaagg ttctccgaaa 360  
ccagttacaa caacaacaac aacaagtatt acaacaagga ttcttatgag ggtaaccaat 420  
atgagttaa tgacacaaag tacacagaag aaggatacaa caacaagtat cacaactcct 480  
atcagaacaa ctacaacaac gatgctgcca atgacaaata cttctacaac aacaacaaca 540  
acaacaaaaa ttacaatgct cacaataaca ggtacaatac ttacaacaac aatgctgtta 600  
gcaggtacaa tgggtgagagg catggaatga gtgac 635

<210> 2719  
<211> 590  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220051g03d1

<400> 2719

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atccggagtg gaggggtggga gaaagaatct gaagaaatac aaaaagccta ggcttgaaga 180  
aatataaaag gtgggataat tcaactgggta gtttttctcc caaaatcttg aaactcatag 240  
gtaaatacac aggcttgtgg agaattaaca atgcggtaga aatataaaaa atttcagctc 300  
ccttatcttt cccttatctt tcttcacata catggttatc cagctgcgaa aggcttggcg 360

atgtaaagtt ccattccact cacaggagtg aaaatgatct atttagtgag aaaatttggtg 420  
 ttcaatttcc accatgtaca aaattttctt agaccgacaa taaccactaa ccactggcgg 480  
 aattaatctc tgaccccaat aagttgaaag acaatcatga tctctgaccc aggattaana 540  
 agaaatacat ggtcatccag caacagaaac atgaacatta tacctggaaa 590

<210> 2720  
 <211> 551  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220051g04a1

<400> 2720

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 ataatcggag ttggcataac aagcagcggc tactcattca cgcggggtgc acgtgtacac 180  
 gctacccgat ctggattacg actatggcgc actggagcca gccatcagcg gcgacatcat 240  
 gcagctgcac caccagaagc accaccagac ttacatcacc aactacaaca aggccctcga 300  
 gcagctccaa gacgccatcg ccaagaaaga ttctccgcc gtcgttaagc tccagggcgc 360  
 catcaagttc aacggcggag gtcattgtcaa ccattctatt ttctggaaaa atctagctcc 420  
 tgttcgtgaa ggatgtgggtg aaccacccaa gggttcactg ggatgggcta ttgacacaca 480  
 ttntggttct tttgaagctt aatacaaaag ttaacgcaga ttgtgctgac tacaggggtc 540  
 tggatggttg t 551

<210> 2721  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220051g04d1

<400> 2721

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 cccggacggg gaacaggccc aattgctcca acagaggcca catgaaaacg gtcgtgcaaa 180

cgagaaactc ccccttgga cccctgtgat ttatcaaaac gcccaagggg gggataaaaa 240  
gattcacatg gccagcatat ggggggtgga cctcccatt tgtccctgtc aagaaaa 297

<210> 2722  
<211> 530  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220051g05a1  
  
<400> 2722

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gtgaaggctg tggccgttct tggcagcagt gaggggtgtca ctggaactat tcacttcggt 120  
caggagggaa gtgggtccaac caccgtaact ggatctcttg ctgggtctta gcttgggtctc 180  
catggtttcc atgtccatgc cttggggggac actaccaatg gttgcctctc aactggatca 240  
catttcaatc ctaataacaa ggagcatggg gccctgagg atgagaatcg tcatgctggt 300  
gatcttggga atgttaatgt cgggtgatgat ggtactgtca gcttcactat tactgacagc 360  
cagattcctc tcaactggacc aaacaacatc ataggaaggg cgggtgtgtg ccatgctgat 420  
cctgatgatc ttgggaaagg tgggtcatgag cttagcaaaa ctactggaaa tgctggtggc 480  
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<210> 2723  
<211> 339  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220051g05d1  
  
<400> 2723

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aatactgtcc gctgtttcaa tagattattg cgcttcattg tggatcaatg atgctacaat 180  
tttccgtata atttactaaa acagcgatct cattattggt catcttagac taaacgctca 240  
ttagatgcat cattgaccat tgggctttta gaagacgtat tataaaagta cctatgatat 300  
acagttgtgg caaaaggcgc aagaaatggg aatactcca 339

<210> 2724  
<211> 601  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051g07a1

<400> 2724

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aatttcctct tcccttggtc aaatttttcc tcttttctat ctattttttt ctattaaana 180  
aagatattcc aacagtatat cctaattatc ttgtatgtgt attcctcctg cctccctttt 240  
catttctatt ttatggatta ccttcttgca acatgcctct gttattggaa aattggttgt 300  
tgatttactt gcagctgatt actaatgtat tttctttctg tcttctggac tctacagcat 360  
caatttgatg ctggtaagtt tactactttt ttgataaat gttattatgt cttgggtaat 420  
tggggttatt tttatattgt gcatgcatat ctgatcttgt tctcctccca cccaaaaatc 480  
ttctgtgtat gatcttgttt aaacaatatt gtaaaatggt cacgcttatt agtttccttt 540  
ctctgagcgg tttatgtgac catctgcaac gaaaggggaag atgatatgta gtgaagtaac 600  
t 601

<210> 2725  
<211> 402  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051g07d1

<400> 2725

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tgtttccatt tcttttgcta tcacggcctc tattgcgcac accccaaagt ggtcatgtat 180  
cattattctt ctacaaaata ataaaacgaa atcctgggat atgggtgcttc agcgttgga 240  
gatcttgaca acaatatata aagagacaat caactcacca gttgcttgct ataagaaata 300  
tcataaaacc tatcttgact tttcttttct tacgtgccac agaaattgta gaccaagatg 360

tcactgtttgt ttcaaaaggg aatccatggc ctctgccact tt

402

<210> 2726

<211> 585

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220051g08a1

<400> 2726

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cagcggcggc tcccaccact tctcggcat cccagccac agcccttct aaacctaac 120  
caaatcacc tgcgccagtt gttctccca ctcatctcc tccagcttca tccccaatg 180  
ctgcaaccgc aacctctcc gttctgtct ccacggtagc atctctccg tctaaagctg 240  
ctgtccagc tccagcaacc actctccgg tggccacacc tcccgcgcc actctcctg 300  
cggctacacc tctgtgtg acaccagtga gtcgcccgc agcgccagtt ccggtgagtt 360  
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ccgtggtagc acccagcgt gaggttcccg ctccgctcc caagtcgaag aagaagacga 480  
agaagagtaa gaagcacact gcaccagcac cgtcgccggc attgcttggc cctcccgctc 540  
ctacggtagg agtcctgga tcaagccagg atgcgtcggc ttctg 585

<210> 2727

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220051g08d1

<400> 2727

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tttactatth agtcatataa gggagaaagg gaaacagtat gtggtggata atatcagggc 180  
catcataacc tacacaactc tgaacaactc ttcataaata tctactgactt aaaatgcaat 240  
taggccttcg atttcttccc tttggcttca ttagatgggt ggctcttgaa aggcaggaaa 300  
gtctttccac ccatgaatgg tctgaggact tctggtatct ctaccccatc ttccttctgg 360

ttgttctcca gtatgcagca aatggctctc ttagtagccg ttagagtaga gtttaacaag 420  
tgaacatatt gcttcatctg ctcatgctc ttttctgac cat 463

<210> 2728  
<211> 490  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051g09a1

<400> 2728

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accattggct atgatgaagg aagagatgaa tattgatatt ggaagcaaag acacaggttt 120  
cacaaatgga gcagtggtaa aatggccctt catgaacaaa gtatatgtcc atcctctttt 180  
gatgtcattc aatcctcctc aggtgaattc tgtgaaccat cctcatggta tgaagatggt 240  
ttcagttccc aatcaagcaa tttcagtttc catgggacat ccatccctaa agaatcattt 300  
tgcaactggt ggtcagaata tgaatgttgc tactgtgaag caaccactac tcggaggaat 360  
acctgttacg gtgcctcatt cagttcatcc cattgttggg gctgttgctg gaatgaccga 420  
aacacgcgtg aaaccatccg tacctgctcc taaacttaca atcttctatg cgggcactgt 480  
gaaatgtctt 490

<210> 2729  
<211> 394  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051g09d1

<400> 2729

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ttacatttta gacaaattag tcttccact tatcgccgt caacacctac tgtaactgct 120  
ggggttgctg cctaacaagt atcatattca ctgcaaacat ttagtagga gtagcttttg 180  
acgaacaact ctttcttggc ttctcggat tcacccttac cagggtactt cccaagctga 240  
gcgagtgagt tggacttggc acggaatgcg agtgcattct gtgctgcctt tacgttctct 300  
gggcgggctt cccatgtttt caaggcagt ttttgaggg ctttggcata cgaaaatgac 360

acgtgccacg ggtttgagga ttggttcacg gcat

394

<210> 2730

<211> 584

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220051g10a1

<400> 2730

cttctttctg ccacttctct tctatataat aacaccact tctttggttc aacttccctt 60  
caattcatca cataataaca acactataaa cattgatttt ggctctttgt tgcagcgaga 120  
ccaaaatgct tttcactgca accaagtttt taatcttctc ctctccctct cacttccacc 180  
acccccagat ccaatgacaa gcctctctct ttctccttcg atcactccaa acccaaccct 240  
tcttctctct tccttggatc cactcgcaag cttcttcgct tcaatgctct cgctaggcct 300  
catgctcacc ctgctgcttc ttcttccctt gctgctgctg ttcttctcga acgaacctcc 360  
aatctgcttg tcacaaaaga ggaagggttg gaactctatg aagacatgat attagggagg 420  
tttttttgag gacaagtgcg ctgagatgta ttataggggc aaaatgtttg gttttgttca 480  
cttgatcaat ggccaagagg ctgtgtcaac tgggttcacg aagcttctga agaaagaaga 540  
ttctgtagtg agcacctaca gagaacatgt tcatgcattg agta 584

<210> 2731

<211> 462

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220051g10d1

<400> 2731

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gacacttcag tattgcatgc cactgactata tctttggttc taattacatc agtgactcaa 120  
aaagaaaaag ataattaaaa acggctgatt agagagactc cacatcatcc acctattccg 180  
tgtccatcat ttctttgtc aacgagcatt tgatttatga cgaaactctg ggattcatag 240  
agtaagatta tagcatgttt tgttttcaag ctggcaaaca tattactgtc tagagcgctt 300  
taagtacacc aatacgctaa tgctcgtag aacaacaaca cctgcaaaaa taccagaacg 360

gagacgcaat gtactggttt tctgtatagt ggctgtacca ggttgcagtt ttgatggttt 420  
ggttgaattg ggaaactcca aatccaactt taaagccttc ag 462

<210> 2732  
<211> 525  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051g11a1

<400> 2732

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tgctgagtgagg gggagggagtg gttccagaaa caaatgcacg tgctgagact tggatccaaa 120  
tggatgaatgg gatccaaaat ggatcttttg ctaccccgctc ttgggattcc aatgatttat 180  
ggaatagatg cagttcatgg ccacaataat gtctacaagg caaccatttt tcctcacaat 240  
gttgggctag gagttaccag ggatccaatg ctgataaaga agattggaga tgcaactgcc 300  
cttgaagtta gagctactgg aattcaatat gtgtttgctc catgcattgc ggtctgcaga 360  
gatcctagat ggggacgttg ctatgaaagc tatagtggag accctaagat tgttcaagca 420  
atgactgaaa ttattcctgg ttgcaagga gacatcagtg acaatttcag aaaggggggtt 480  
ccctttgtcg ctggaaagaa caaggttgca gcttgtgctt aacac 525

<210> 2733  
<211> 466  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220051g11d1

<400> 2733

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gtatgcaagt atttatttgg cataaatagt gtttaataatt atgtgggtata tgaatatcta 120  
gttgcaaggc atagccaact aatctcagaa tgaagaaaaa atgacaaatc ttggaggctg 180  
aaacacatga attgaattga tggattatat gaagattcta ggagcacctg ttcattcattg 240  
atctgtgaag tgatcaatca actttaggcc tagcagcttg aagcatctca acaatgagag 300  
tcttcacatc ctttctatct tctgcacatc gagggaaagg tacacgaagc ttgaaagtat 360

caccctgata accagcctta acattgaaac caagactatc caaatctagt atgaaggcaa 420  
 agtccactgg aactgaggtc caatgctgca caatcacttt gttatc 466

<210> 2734  
 <211> 567  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051g12a1  
 <400> 2734

aaagcaaaag caagcagcta gctaggggaa atagaaaagc aaaggaagaa aagaaaaaca 60  
 tgaaagaaag aaagaaaaga aaagaaaagc aataaagaaa gggaaaaaaa gaagaagaga 120  
 gaaaacaaag acaaaaaggtt ttcaaaaact ccatgattat tcaaattctc taaaaaacag 180  
 taccaagcag tagtagtggt ccctctactt aatcaacca caggagagga cctctacaaa 240  
 gaccctgttt aggcttgggt tggaacaaca tcaaaaaaga gaaagcaaac tttcttttct 300  
 cttttgtaga tcgagatcgt agaaattaag aaaggcatga atagaggtgt tttgcaaagc 360  
 tcaccggtgc aacaaatgat ggccagaaac cctaacaact ggtggaacat caacaccatg 420  
 cgccctctc ctccttctta agcttctgca cctttcttct ccactcctc caactttcta 480  
 actccttata accccacttc tcttctctt ccttcttggc atgacaacaa tcaagagcta 540  
 cccgagtcac ggagccagct actcatg 567

<210> 2735  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051g12d1  
 <400> 2735

cttactcaat tccatatttt ttttctttt cattatattg gggggaagca aaattggtag 60  
 gaaatatttc caggaaaatg tggtcaggaa acaactctat tacactccta ttgaagccta 120  
 tattaaccaa cacttgaggt aatttgtttt taaaagaacg agaacactgt tctatgacaa 180  
 ttacattttt tgaaattcat gaaacttttt gccaatgatt tttatgatca taccacagtg 240  
 gctatgccac tgtatcttgg tcttgttctg tcagtctcag gtgaaaggcc ctgttccatg 300

gacttcctct cctttcaatt ttcttacagg tctaattgag tgtcaggttg ttgctataga 360  
 tgaccaactg ctccacctct attactaagg gcggaaggtt cctatcaata gc 412

<210> 2736  
 <211> 518  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051h01a1  
 <400> 2736

taagaagctt aaagctgtgt ctcgagttag tgagacagac ccagatggtg gcaatcttcg 60  
 ccctcatatt gtctatctca tggaccttgg tatggatatt gagcagatta cgagtatcac 120  
 acgactatct ccatcatttg cctactatag cttggagcgt caaattcacc cagtgggtga 180  
 gttttttctt gaacttggag tgccaaaaga gaacattctt actatcctca ctaaaagacc 240  
 tcaattatgt ggaatcagtc tatctgaaaa tcttaaacc accatgaagt tctttgaatc 300  
 tttgggtggt gacaaaaacc aatggccaaa ggtgatctat cgcttcccag cactgctaac 360  
 ttatagcagg ccgaaagtga tggaaagcat agattttctc cttgaattag gcctctcaga 420  
 agagagtata ggtaagattt taactcgctg cccaacatt gttagttaca gcgtatagga 480  
 caatcttcga cccacgctaa gtactttcat tcttgggg 518

<210> 2737  
 <211> 567  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220051h01d1  
 <400> 2737

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 tgaggagcac atgcagcaat tcagtcttac tacatgattc tctttattta gaaaacaaag 120  
 ttttaccat taaacaaact gatcagctag gctttgcacc ttagacaaac tgattaaggt 180  
 actcatccac agtgatgtat ttcacatcag gatatagagc tgaagcttcc actccaaaag 240  
 aagactcaat ttcaaagtta gtatgatccc cctttacata agaagagtgg ttaattgaca 300

ggatcacatt cacgggtggt gcggactctt caatttgctt caggagtgtt tcttctggaa 360  
catagattct ttcaagagtt ttaccaatct ttccctccca gagagtaaca agctcattaa 420  
acgacaaggt attagctggt ggtctaattt agagaatttt gttcaagggt cttggatcat 480  
ccacagaatt gattgtataa gttccaatat cctcttcctt ggtaaaacag ctttgggggt 540  
ttcatctnct aggataataa ctctgtc 567

<210> 2738  
<211> 561  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220051h02a1

<400> 2738

ncttcggctc gagagagaat cagaatcact tgtcctcctc ttccactata aatacgctca 60  
caagtcacaa ttctccctca tctcacaatg gtttctcatt actatcttgc ctctcttctt 120  
ctgctactgc tgetcaaccc acacaccacc ctgggagcgc aaaaccttat gctaccctac 180  
cataacggcg cctcctcctcaa aggaaccatt accgttaacc tcttatggta cggcagcttc 240  
acccaatcc aacgtccat aatcctcgac ttcattaact cgtaagttc caccgcgggg 300  
gccccacttc cctccgtagc atcgtggttg aagaccacgg acaagtacag ggggggatcc 360  
actacaatcg tcttagggaa acaaactcta gaacaaactt attccctcgg aaactacctc 420  
aacggaacac aactagtctc tctctcctca cgcttcgacc acctcaacgc catcaacgtc 480  
gttctcacat ctagecgacgt angggttgac ggcttctgca ggagccgatg tgggaccac 540  
gggtccatta ctaacgggca g 561

<210> 2739  
<211> 323  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220051h02d1

<400> 2739

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acagggtccc cccggagggg cccccctta aaaaaccccc caaaaaaaaa aacccccaaa 120

accaaaaaaac ccaaaaaggg ggccccttca aaaaaacccc cccccccctt tttttgcggc 180  
 gcgcacttgg tgcacccac taaaaccccc caaaaaaat agatacgtgc gccaaaaaac 240  
 cccccgtga agcgtccaa aaaaagcccc cccccccacg gggggccaac cccccctcc 300  
 gggaaaaacc caccctctgg ggg 323

<210> 2740  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051h03a1  
 <400> 2740

tttggtcata tgtagggaa gaggttctc atggaaggaa agcacctatt gatcctttca 60  
 ctcgagaaag ttgcaagcca tctgcatctc aaggagtccc actcggaggg atggggagtg 120  
 gcagcatatc aagaggattt aaaagtgagt tccgacaatg gcaaattatt cctagcttat 180  
 gtgaagcgtc accagtcagt gccaatcagt tctctatatt tataagtaga gagggaggaa 240  
 acaaaaattt tgcattcagt ttggctcctg gccagcatga aggttttaga tctagcagga 300  
 aacctgatga tcagggcata tcattcatggg gttggaatct aagtggccag cactcaacct 360  
 accacgtttt gtttccaaga gcttggacag tttatgatgg tgagccagac ccagaactaa 420  
 aaatatcgtg tcggcagata tcaccattcg taccacata atatagagaa agcagtctac 480  
 cagctgctgg ttttgttata cgttggtgaa cact 514

<210> 2741  
 <211> 544  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051h04a1  
 <400> 2741

tttttatatt aaatatatta atttatattc ttaattaacg aaggcattat gacaactaat 60  
 tttgtgtgtg tgaatttata gatacgttac ccaagcatat gctatcaggt tcaagtcata 120  
 tgtaaatatt taaaattaag atattaagac ggttaagaaa gaaagcaatt actactagga 180  
 attaaaataa ctcaaatca agacaagtaa aacttgtgga ctgcatgcag gttttttttc 240

gtatatatag attgcatatt atttatgtac ttgtacacca aaagcataat tatctagact 300  
 ttatattatt aaaaaaagta atagtatgca aggaagaatt taatttttaa tgaattgaag 360  
 agatattttc ctgacaagat taaaaagatt aaattaaaaa tatttttttg gcaaaaattt 420  
 ctaatcattt taaatttttt tctttctttc ttactctcaa gtttataggt gagaatggat 480  
 tacgtgatcg ttgtacattc cattgttcaa gtaagtgtgg ttttttattt aagtgtcgaa 540  
 attt 544

<210> 2742  
 <211> 520  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051h04d1  
 <400> 2742

gaattgtgtt tattataaat aagaattaat taataatata tgggtgtctga tgtacgtaac 60  
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 ttatcatagg tgcggcactc atcagtctct ggattgtcct tgcagtaatt ttcgagcggg 180  
 tcagactgct tctgcttctc cctggcgtgg ctgcgcgccc cgctcagctc ctccacctcg 240  
 tcccaggccc tcgcgcattc cgcgtcaccg ccgtctcccg agcacgcctc ctccgcgctc 300  
 tttatgctct cctctacctt ctccgatata ttctccggcg tcgcccgaac gggccgggtc 360  
 ttcaccaaac caggccactt ttgaatgggc ctgcacagag ctggaaacct cacggcctgg 420  
 gccttttgtg ctgagtctat tcccttagca ttagcaaata ccctggtaag gcgttgaaag 480  
 acttacacca ccagctattg tacccatctt tcttcatttt 520

<210> 2743  
 <211> 609  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051h05a1  
 <400> 2743

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 actcagtact atcagtgcc aattttccat ctttcttctt ccagcctttg ctttgccttg 120

gttggatatag aagtgacaat ccaaccgcac tcttaacgtg gataatgatt tcatttttga 180  
atattgataa cctagtcctc tggagtagtg ttaatatctt ttttggcagt gaacacacag 240  
tccactgtca agttacctag ttaatgaagt gaagggttat aatttgatcc aaaggaatct 300  
gccaaagggtgc agatgatgtg gagtttttat gttcttcctt ttggtaagtt tcagttcttg 360  
gaggagtcaa atgctgaact gcgttttaag gttggagtgt ctattgattg gatcagtata 420  
gttggatttg gttcagagag ttcttcaagg attcaagtga ccattcaatg ctattggttt 480  
ctatttactg cttgaggctg tcaagtcctc agtgccacct tataagtata ttgtggattc 540  
tcgtatatac actagttttg atgtgttctc ctcttggagt aatgctgatt gagctgcatt 600  
aatcgattt 609

<210> 2744  
<211> 441  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220051h05d1

<400> 2744

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gacggtccaa tatgaaaaat atagtaagat catctcaaac ttagcatctt ctctttgcac 120  
ctaagacatt gagaatgcta agaattgtac acgcaagttc catcacaact tctagcactt 180  
ggattagtac aacaaccttc acgaacagaa atatttactt gccaaagttg ctttgccctc 240  
aattcaagac tggaagaaag ttccctctg aatagcatcc tcgttagcat ttccaagagc 300  
agcctcgttc aagtacttgt cagccaattg gactctcttg acattctctt gttcttggac 360  
aagcatgtta ccatacagca agagcttctc cagagtcatc ttgggctgct caaagggttg 420  
aggtccatct tttgagttca c 441

<210> 2745  
<211> 597  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220051h06a1

<400> 2745

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 tcctccttgg agaagagttt tgcctttcaa gcagcaagaa aggaggacac agaaagcaac 120  
 aatcttcate aatatactca tcttggtcac ctcagctcac tccttccttc atcttcttgc 180  
 agctcttcta ccaaaggtcc caaaacaaaa gcatcattag aagtgggtaca caaacatggg 240  
 ccatgctccc aactaaatga tcatgatggc aaagctaagt ctacaacacc acacagtgc 300  
 attctgaacc aagacaaaga aagggtgaag tacattaact caaggctctc taagaacttg 360  
 ggccaagata gtagtggtga ggaattggac tcagctaccc taccagccaa atctggtagc 420  
 cttattgggt cttgaaatta ctttgtggtt gtgggtcttg cgacaccag agggacttgt 480  
 cactcatttt gacactggca gtgatctact tggactcagt gtgaaccttg tgctcgtctt 540  
 gctacagcag caagatgaat atttgatcca tcccgtctac atatattcaa tttacat 597

<210> 2746  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051h06d1  
 <400> 2746

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 gtgactaaac ggccaacaaa aatcatgcaa cggggcgctg atgaaaaaac gagcgaaggg 120  
 gaaaaccaag gggcaccgga acgggaccac ccgagccgca gccaccgtct tgggagcgga 180  
 cgcgaaacca aagaggcccg gcccaaccgc ccttaaaaga agcacgccc gcccgagggg 240  
 cacagggggc cccccagct gggggagatt aaaccgacc attggggggc agtcccctgg 300  
 ggggaaccgg a 311

<210> 2747  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051h07a1  
 <400> 2747

ggaaaattac tatgattctg gctggcacat gggcaccagc aactgggctc aatgcagtga 60

tcattcttct tcttcttctt ttgcagtgcc tacacaacaa atactccctc atcatgtcac 120  
 tgacgctgcc tctcttcaat ttggtgagtt tctctcatgg tcacttccca ttgaaggggc 180  
 tgcagaagag agagcaataa gtgcttccaa gagtcacagg caagctgaga aaaggcgcag 240  
 agacaggatc aatgcacagc ttgcaactct tagaaaactt attcccaagt ctgataagat 300  
 ggacaaggca gctttactag ggagtgtgat agaccaagtg aaagatctaa agcgaaaagc 360  
 catggatggt agcagagcct tcacagttcc aactgaaatc gatgaagtat caattcatca 420  
 tgaccatggt cttcaagatg aaagctgcac tgtaaaagtg aacaaattga aggacaatat 480  
 tgtgatcaag gcttttgttt gctgcatga tcgaccagaa cttt 524

<210> 2748  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051h07d1  
 <400> 2748

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 cgccataagc cagggattga acaaaccaac ataaaggctt acaaaaggaa ctttgcttaa 180  
 atagaaacaa caggctgcc aacacaaaag ctagttctat ggcccaatat ccctcacggc 240  
 gcaaattctgc tcttcaccca tagcagacat gacagacaca acaa 284

<210> 2749  
 <211> 596  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051h08a1  
 <400> 2749

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 agacgagggg gttccgatgt cttctctcag tagggaattg gtgttcctga tcttgagttt 180  
 tctcgatgag gaaaagttca aggagactgt gcacaagctt gagcaggagt cagggttttt 240

ctttaacatg aaatatTTTTg aggatgaagt gcacaatggc aattgggatg aggtggagaa 300  
 atacctcttt ggtttcacaa aggtggatga taataggtat tccatgaaga tttttttga 360  
 gataaggaag cagaagtatc tggaggcttt agataagcat gaccgggtcca aggctgtaga 420  
 aatattagtg aaggatttga aagtgtttgc tacatttaat gaagaattgt tcaaggaaat 480  
 cacacagctt cttacattgg aaaatttcac ggaaaatgag caattgtcta agtatggatga 540  
 tacaaaatct gcacgagcaa tcatgttggt tgagcttaaa agctaattga agcgaa 596

<210> 2750  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051h08d1  
 <400> 2750

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 actacaaaacg cctacatata ggtgcagtag ataaatctct aaaatatacc aaacataaca 120  
 cacaggaaaa tagcgcttaa gaccctaaca gacacgacac gtaagggaga cgtaaaggac 180  
 acatcaatgc tactatcaga catatacccc tcaacacgat ctccaccagg gctgctggcg 240  
 aaccggacga ccaagcgcag gagggccaat ctctagccca ggatcatact acggggccgag 300  
 actacaaaca aaccaccccc cctaggcaac gcagcatcct gtagccccag aacctcgaca 360  
 ctctcgaacc actaatcaaa cgaagcgcac agcccaaag 399

<210> 2751  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220051h09a1  
 <400> 2751

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 gccgccgccg tctgcgctac ggccggcactg gtggtgcgcc accgcatgat tagttcccgg 120  
 aagtggagtc gcgccatggc gatactgaag gagtttgagg acaagtgtgg gaccccaatt 180  
 gtgaagctta gacaagtggc tgatgccatg gatgttgaga tgcacgcagg tctcgcatct 240

gaaggtggta gcaagctcaa tatgttgatc agttttgtcg ataatctccc aactggggat 300  
gaggaaggac tctattatgc actggatctt ggaggcacia acttccgtgt ccttcgtgta 360  
catttaggcg ggaaagacaa aggtgttatc ggccaggagt ttgaagaagt ttcaattcct 420  
ccaaatttga tgactggctc ttcagaagca ttgtttgatt ttatagcagc agctcttgca 480  
agtttgttgg ttcagaacct gaagggtttc atcctcccc tggcagacaa agagaactgg 540  
gtttacattc tattcccaat gaggca 566

<210> 2752  
<211> 459  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051h09d1  
<400> 2752

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aaatcaatca aatttcaa atacactata cataatcaac atttagatac gcatgcctta 120  
ctgcatcata attctgaatt cttcaatgct tagcacacca ttccattca aattaaactg 180  
tttgatcatg gctttgcact catcaatgga cttggactct cccatcttct taagcatact 240  
tttcaagctc ttgggggtta taaaccacac ccctttagtgc tcatacatct caaaagccac 300  
cttcaagtca ttcaacttct gatcctctcc cccagcttcc ataagagcaa tcaaatcctt 360  
caaactcagc aacccatctt catcagaatc caatgccgta attgccattt cagatttctt 420  
catcaaaagc tccccaccca ttattcgaag cccgtgctt 459

<210> 2753  
<211> 611  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051h10a1  
<400> 2753

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aacgcggcga ggcgcgtcc gagccaccgt gaatctccga aagccgaaaa cgttgagcgg 120  
tattctgaat ttcgggtgtt ccacatcgga tgcaagttgg aggagctgga atccgagttc 180

gctccacagg aactcgctct tcgcttgctg ctccgcccag acaacgccgc atgttcagca 240  
 cctcgcaacc tccaccttct cgattgacca gactaatttt ggtggcgaga ggttgaagct 300  
 gttttcgggg tcatgttacc taccacatcc ggataaggag gacacagggtg gagaggatgc 360  
 acatttttatt tgcacagatg aacaagcaat tgggtgttga gatggtgtaa gtggctgggc 420  
 agatgttgggt gttaatgctg gactctttgc tcgagaactc atgtctcatt ctgttagagc 480  
 aattgaagag gaacccaaaa attctattaa tccggctagg gtttttagaga aagctcactc 540  
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 acatgccatt a 611

<210> 2754  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051h10d1  
 <400> 2754

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 cacgaactct aacactcggg ggccctattc caactagtgg cgccccaaca aattacacta 180  
 cccactcca aatcaacata taagaaaaag aaccattatt ctatcccttt gaatgtggct 240  
 catcgtgcac tccaaattca aattcccacg tgcacatcca cgtacccaat ggacacacat 300  
 gcattttcac agccttcacg aatcacaaca acatcaagag aactcaagtg aaggcttttg 360  
 acgaaaccaa tgaataatcg tggccacttg ctcagcctca tgtttgctgt gtattgtagg 420  
 atttgcaatt cggaactttt tgagccacaa aatggaactg aacgt 465

<210> 2755  
 <211> 556  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220051h11a1  
 <400> 2755

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cttcttcttc cgtccagtgc ttgttctctt ctcaagatag aatagaaggg ttgttcgatt 120  
cgatgacgac tcgaattgcg cccggtgtgg gaacccaatt tgctgggtca acacgccgcc 180  
gagaggaatc aagacgccac tgcttatgtc ggcaatctcg accctcagat aagtgaggag 240  
ttgttatggg aattgtttgt tcaggctggg ccagttgtta atgtctatgt tccaaaggat 300  
agagtcacca accaacatca gggttatgga tttgttgaat tccgcagtga agaagatgct 360  
gactatgcca tcaaggtgct taacatgatt aagctttatg gcaaaccat cctgtgcaat 420  
aaggcatccc aagataaaaa gagcttggat gttggggcaa atcttttcat tggcaatcta 480  
gatcctgatg tagatgacaa ccttaaccaa attcaggact tatacatgag tgtcaccaaa 540  
ttatacccgg agtcgt 556

<210> 2756  
<211> 347  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051h11d1  
<400> 2756

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gtttcgaggg ttgaggctcg tgcttgaatt gcctcaagtt ctgatgtcag attagataca 120  
tcatcaaggt atttattggc ctgcgcttct gaagcggtac gcttctcatc taatgtgctt 180  
atgtgttgtt caagttcctg aattctgtat ttctctgctt ctagtaacaa ctccaactca 240  
ctcacctttt tatcagtatc ttccaatttg gaggtagaac tctggattaa atcttcagtt 300  
tctcggctac gctgatgggt catactgggt cggtctttat gctcagc 347

<210> 2757  
<211> 594  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051h12a1  
<400> 2757

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tcatcatagg tctggagcct ttgcaaaacc ttaaagatat ggctatctca tcttaccact 120

tccaggttgc gcgagtagat cgtactatgg ccatgcctaa aaatggtatg caagcacagt 180  
tagcatcttt atcaaggaag ggtcaaccag tgaggatctt gtcaagtcca aaaggtcctc 240  
atggttctcc atatcatcac tatatcaagt caccgaaacc taatggataa gaatcatggt 300  
tctctctttg atttgcttct ctattcattc agttccctca caacttaggc tatcaacaga 360  
acagaaactg tttgtgtttt gaaaattgct ctgaaacatg aggaattact agagttttct 420  
gaccttatct catctcaa at aaggttgggg ggaccatgag acagttcact ggatttttaa 480  
gttttagcggg gaccaagttg accaaacttg aatagaaaac tagaacacag ttttcacatg 540  
tggaatttgg tactgtggag ttgctatact ttttctacca tttcacatgc tttc 594

<210> 2758  
<211> 461  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220051h12d1  
<400> 2758

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tactcatcta acaaaacagg aaatcacatc ctctcatag aatgactact acaattatat 120  
ttgtgaggaa ggttatctaa atctatacag ggatactgct agctgagaat cttcgttttg 180  
ctatcaaaaa ctgccattcc cattttcagt gaattgccca aatctgtgaa gaaatttatt 240  
gccgggatgg tacgacggaa cattgagcaa gatactcaat tgaccatcac cgtaaggcat 300  
tcacgaatgc cgtcaatgaa tcaacatctc tcttttctga agggactta attggttgag 360  
aagagtgctt ggggaagaga agtattgtgg ggaagcttcc caactgcagt tctctcttg 420  
catattcctt ctgctctcca tcggctctga attttgcaac c 461

<210> 2759  
<211> 523  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220052a01a1  
<400> 2759

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ctcaactggc cttttcttgt tccaaagttt caagctcttc tctctcaccg gttgcgggtg 120  
gtggtgaatg gtctaaaaac tctcactttc gtttcggtta ctatgagaaa tcctaataag 180  
cgtgatcatg gactcaataa cttgcaggtg cctgctgctg ctgtaaacgc accagatcca 240  
ctcgtggtggg tcatatttga acccttgcaa gagctaaaga aggaatatct tgctgtccca 300  
attgcacaca aagagtgttt ggctcggccg atctatgtg acgagttcga atctgcaatc 360  
aacgagcaga tcaatgtgga atacagcgtt tgctatgtgt accattcctt gcatgcgtac 420  
ttcgacagag acaacatagc tctcaaggga cttgccaaagt tcttcaagga atcacgtgaa 480  
gaagagagag agcatgctga gaagcttata cagtatcaga aca 523

<210> 2760  
<211> 288  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220052a01d1  
<400> 2760

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ccgcctacca atatgtccca tcacataaat gattgcgtga cattaatact acggtcatca 120  
tcccgcgggc tacgtgtca gactcacagg cgtgggcat aaggctaacc gggcatgact 180  
accggggaac taatctacta tgcccgcacc tgtattgaat ggcaagaagg tgtacttatg 240  
ctcaagcttt acgccaggat cgcaacgtcc tatactacta caccatgc 288

<210> 2761  
<211> 566  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220052a02a1  
<400> 2761

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atgaagattg atatgcagca aacacaacgt atacaagagc tagtgaagga gctcaatact 120  
ttagacaaa gtctctcccg atctgacctt cactacaggg ataggacagc attatctaaa 180  
aagcaaaacta tgattcagga gcaactgcaa aacatgactg gattgagttc aattgggcag 240

gaatcactgc aaccagtata ttttgggaat gtcagaagga taataggaga taagcttcag 300  
 ttagcacctg ctctattga tggatgaatgg ctttctaaaa gtgctgtcta tgcattagtt 360  
 gatctaatag tagttgtgtt tgggcgcccc aaaggacttt ttaaggagtg tgcaaaacgc 420  
 atacagtctg ggatgaatat aatccaagat gagttactga agcttggaat tactgatggg 480  
 gttagagaag tggatttaca acactcttct atttggatgg ctggtgtgta cttaatgcta 540  
 ctaatttagt tttttgaaaa caaagt 566

<210> 2762  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052a02d1  
 <400> 2762

attaataaaa tggggaaaag attacatgta taaagcataa aagtttgtaa aacaattcaa 60  
 aaagtcccat cacaacaac atagaagggc acttaatact ccagacaacc acccacttga 120  
 aacaggtgga catacttaca aacctaggca ataagcaaaa ccggaattgt cttcggggga 180  
 actaatgaac aagaactaca tactggattg ataaggaaaa ggctttacag aggtgtaccc 240  
 cagctgcccg gatcactggg tc 262

<210> 2763  
 <211> 543  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220052a03a1  
 <400> 2763

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 caccaaagcc atagaagggtg tcattgtgcc tctcatctca ctgtctcagt cacatcatct 180  
 tttggtgaag gaaatagctg aagctgcttc tgagtgggga tttttcgtca taaccgacca 240  
 tggtatgtca caaacattga tccaacgttt gcaagagggt ggtaaggagt tctttgcctt 300

ccctcaagaa gagaaagagg cttatgcaaa tgactcttcc gaaggtaagt ttgagggata 360  
 tggcacaaaa atgacacaaa accttgaaga aaaggtggag tgggttgatt atttttttca 420  
 tctaattggct cctccttcta aggtcaacta tgacatgtgg ccgaaacacc cttcttccta 480  
 caggggaagtg acacangaat acaacaagga gatgttaaag gtaacaaaca aggttttggg 540  
 gct 543

<210> 2764  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052a03d1

<400> 2764

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 tcaatacaat ttgattcctt ttatcatgtc agcacctcaa ccgatgatga tctcaccaat 120  
 tatatttcag caataaaaaa aaagcctaata aaaatatttt tttttcataa atttattcta 180  
 aaatctaaaa atgtcatgga ggggctgtgg catatcctac atgcaaatat gcttcctctt 240  
 acattcttac tcatcgcttc tatcataaat aggacacacc ctcttaattt cgttggtcct 300  
 atcataaata ggacttttct caagtagaag gaggaacttc ccaattcttt ggcacaggcc 360  
 caaaatcata gattatttct ctgtggcaag accatacaag ttttatagcc tctgggtgtc 420  
 caattcctgc acctctagca tcaccagcgg gt 452

<210> 2765  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052a04a1

<400> 2765

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 accgagatgg atgcagaaac tgttgcaaata gtggttcac caaaggagac tccaaatagt 120  
 gtttccattt ctcatcattc ctacaccct cccttaatga gaggattatt tcatccatga 180  
 ccaggagatc tgttgctgca caccatggc atgacctga gataggacct ggtgctccaa 240

ttatcttcaa ttgtgtgatt gagattggga aagggagcaa ggtgaaatat gaactggaca 300  
 aaaagtcggg gcttatcaag atcgaccgag tgctttactc atcagttggt taccctcaca 360  
 actatggggt taccctcgt actatctgtg aggacagtga tcccttgat gtcttgatta 420  
 ttatgcagga gccggttctt ccaagttgct ttcttcgggc caaagcaatt ggtctcatgc 480  
 ccatgattga tcaaggggag aaagatgata aaattattgc tgtctgtgct gatgatcctg 540  
 agtttagaca ttacaatgat ttcaaag 567

<210> 2766  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052a04d1

<400> 2766

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 ttaatacaat ccgaaggctt taaaaatgtc aacaccttaa cccctgatga acacccctt 120  
 gatacttcag cgatacaaag aacttctaac aggttcttta atgtttatta cgccctttta 180  
 aaatgtaa atcgacctga gggcatgcgg catggcctac gtgacactct gctctctgac 240  
 acattcttac ccatggctgc tategtaaca cggaccacaca ctgctactat tgctggcgcc 300  
 attatacatt ggactatcgt catgttcacg gacgtacttg ccaattc 347

<210> 2767  
 <211> 569  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052a05a1

<400> 2767

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 actacacaga atgtgaagggt gggatgatca atgcttctga tgtagctgag aaggaggact 120  
 tacaagatgg agttttgatg aacaatgacc cagtttctgc tgctttggat caaactatta 180  
 caaattgtgt tgtttctgct cctttgatga acaatgaaaa tgttgcttct tctgggtggt 240  
 ctcatgttac ttctgatcaa gaggacctct catgtaaacc gttgtctaac atggatggat 300

cttgggggtcc aggatttgat ggtcgttttg aggatggtaa cacattatca aagcatgaag 360  
 ttctgaatgg cattgaaatt tccaagagtg aggggcaatt ctgtccattt gacgatgctc 420  
 gagtatccaa tggtattagt cctctacgat cacctggtag acctgaagtt gttgatgagg 480  
 aagcttaagc ctttcaagaa ctgaaggaag cagagacttt aaaccatgta tctcttgaag 540  
 ctgtgcagcc cgctgaatca atcctttag 569

<210> 2768  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052a05d1

<400> 2768

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 tagtcttcca cttcatcgtc cgtcaacacc tactgtaact gctggtggtg ctgcctaaca 180  
 agtatcatat tcaactgcaa catcttagta ggagtagctt ttgacgaaca actccttctt 240  
 ggcttctctg gattcaccct caccagtgtg cttcccaagc tgagcgagtg agttggactt 300  
 ggacggaat gcgagtgc atctgagctgc cttcacgttc tctgggcggc ctccccatgt 360  
 ctgcaaggca atgttttagga gggctctggc atacgagaat gacacgtgcc acgggttttg 420  
 agatt 425

<210> 2769  
 <211> 557  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052a06a1

<400> 2769

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 cttgactgtg gtggtggcta catgaagttg ctcaagtggg atgttgatca gaagaaattt 120  
 ggcggggata ctccctacag tatttatggg tgggcccata tatctgcggt tacagtacca 180  
 agaaagttca cgctattctt acctacaata acacaaacca cttgataaag aaggatgttc 240

cttgtgagac tgaccaactt actcatgttt acacatttat cctccgtccg gatgcaacct 300  
acagcatcct gattgataat gtggagaagc aaactggtag tctctactct gattgggatc 360  
ttctccctcc aaagacaatc aaggatcctg aggctaaaaa accagaagat tgggatgaca 420  
aagaatattt tcctgatcct gaagataaga aaccagaggg gtatgatgac atcccaaaag 480  
agctcccaga ccccggaagcc aagaagcctg aagattggga tgatgaggaa gatggtgagt 540  
ggacaccccc taccatt 557

<210> 2770  
<211> 510  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052a07a1

<400> 2770

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gaagaaatcc ctaatgttgt acacctaaca catctcacga cccctgaatc catatatcat 180  
ctcaggcttg gatttgctta cttggcttct aagccttaca cgtcaaaatg gtacctttgt 240  
ttgatgtggc cagtaacagc ttggtccatg atcctcacat gggtttatgg ccgtacattt 300  
attgaggagg ggaatcgttt tgacaaactg aagttgcaaa cttgggcaat acccaagtac 360  
agtctccaat acttcatgca atcacaaaaa gtggctatca acacaatgat agaggaagca 420  
atactcgatg ctgacagaaa aggcatataa gttttgagct taggcctaag gaatcaagga 480  
gaggaccttt acatctatgg aggactatat 510

<210> 2771  
<211> 565  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052a07d1

<400> 2771

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tagacctttc aacaatagac ctaacatcca ccttgattat caacaccaat tgtattttacc 120

atgccttgtc atctaacaat aaccttccaa atcctgctat ccaaaaaaat gtgggggtttt 180  
 aggaaaagca attatgtgtc atttttgtga tgaccatgac ctgggtgaaa atttgtgtca 240  
 cccctttaa cgaaggtttt atttgctagt gtttagcagcc ttgtacattc ttgggttaacg 300  
 acgataataa ggaagatttt ccgacttcat cttctttgat catccgattc ttgggattca 360  
 acattgttgg ggggatatta tgcaacccea taagtctctt gtttagatgat ttaatttcaa 420  
 tctgtgtaga gaaaagtgtt gaaacggggc gatgatcaga gaacttgctt tcaactccgaa 480  
 aatagtgaag ttgtccact cctttaccat accatagaat tctatcacac catgctggag 540  
 atcttagatt tttcccggat ctact 565

<210> 2772  
 <211> 559  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052a08a1  
 <400> 2772

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 ctcggtggtg gtgctggcgt cggacctcgg cgtcgatgcg cgacctttcc tcgaacacga 120  
 tcaacagcaa gaagaagaga attggcacga ctgttcccag tacctctccc ccgacgagga 180  
 cttctccgat ctcgatcagt tgcaattcct ccgcctccaa ggctccgaca agaactccaa 240  
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 caagcggtat gtgttcaaca aaatttgcag tgagttgcct gagggggcct tctgtattgc 360  
 ttacatgcac agcaccgttc agaaggagga taattcccct ggcacacca tcttgaggtg 420  
 gatctatgaa gaacttctg ctgatttcaa ggacaggctt cagactgtgt atttcgtcca 480  
 ccctggcttt cggccccggc tagtcacgc tactcttggc cgcttattct agagtggagg 540  
 gtaactcatc tatcaatgc 559

<210> 2773  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052a08d1

<400> 2773

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aggaattccg atctcattca ctttggcttc aggataggcc tactaagaaa acaaataatt 180  
ccccctcata tatgaacatt ttgacctcct tattactcgc caatgtggaa ttggaattcc 240  
ccgaggaatc ccgaactcat ttcttttggc ttcaggatac gcctaataag ataacaaata 300  
attccaattc atatatgaac atttgtgcct cttattttct tgaaaatgtg gaattggaac 360  
tccccgaag 369

<210> 2774

<211> 568

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052a09a1

<400> 2774

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gtggcggtgg atgctcagga gaactcggac gtgaagacgc tgggtgaagta caagcacggg 120  
aagaagtact gcgacaaagg atgggaatgt aagggtggt caatttactg ttgtaacctc 180  
accattaccg attatttcca gacctaccag ttcgagaatc tgttctccaa gcggaactcg 240  
ccggtggcgc acgcggtcgg attttgggac taccactcct tcatcgccgc cgccgcgctt 300  
tttgagccgg aagggttcgg caccaccggg aacaagacga tgcagatgat ggagatcgcc 360  
gccttcttcg gacacgtcgg cagcaagacc tcttgtggtt atggagtggc cactggaaga 420  
cctttggcct ggggtctttg ttacaatcat gaaatgagtc ctatgcagtc atactgtgat 480  
gactacttta aactcacata cccctgtact cctggtgctg actactatgg acgtggagcc 540  
atttccattt tctggaacta caactatg 568

<210> 2775

<211> 383

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052a09d1

<400> 2775.

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gggaatccag gggaacattt ttagccttca aagggtcata gccctcatac ccttccaagg 120  
gatttgacaa agcaaacttg gcaacaaact cgggggggga ggacctgcaa acaaaatacc 180  
tcacagttgg gataaccagc ctcagcaaga acaaattgga ccgccgcaag aaacccccca 240  
tcccaaacac tggtttgcc accgacccca aaccgaacac ctttcattcg gttaccccc 300  
cctttgagaa caaaaactgg gttaaaaaaa acaagaagtt gggctttaa acaattttta 360  
cgggcagacc catttttccc ttt 383

<210> 2776

<211> 568

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052a10a1

<400> 2776

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gcggcactga atgctaaaga gcaacttgga cgtatatgac tctgggtaag tgcaagcaca 120  
gcaagaatga ctgggactca ggatgtgaat gtaacggctg atcagattta ctgtgggacc 180  
tgagcattac ctgatattat catacctacc agtgggagaa tctgggtctcc aagcggtagt 240  
cgacggtggc gcacgcggtc agattttggg actaccactc cttcattgcc gtcgacgagc 300  
tttttgagcc ggaagggttc agcaccaccg ggaacaagac gaagcatatg atggagatcg 360  
ccgtcttctt cggacacgtc ggcaacaaga cctcttggtg atatggaatg gccactggag 420  
gacctttggc ctgtggtctt tgctacaatc atgaaatgag tcctatgcag acatactgtg 480  
atgactactt caactcacat acccctggac tcttggtgct gactactatg gacgtggagc 540  
ctttcccatg ttttgaact acaactat 568

<210> 2777

<211> 529

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052a10d1

<400> 2777

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ttgtattttac atgctcagat gtggacctta agcttcgccc aattaaacga aaaatatgtt 120  
acacgcaaataa gttgcagcca taaacactag agatatacac atacaaaaag ctgaaactga 180  
caggaactac tttcaagaag acctgaatga aactgaatct ccatgaataa gagaaggcag 240  
aaaaaatctg cttattgtat tctcacacta tttgcatcag gtatcttcca tgcaaaaagta 300  
gaaacaaatc catgtagcag caaaatgttg tgtacaacaa ctcacgtgat caacatatct 360  
tgcattaagt gatatccaat tggatttcta tggcatgccca tgatgccaaa agatagcttt 420  
ttgcaaatca taatatgggc ttcactaagt ctatccaccc aacatagtaa aacaagaaca 480  
gaagctatga gacaacagag aactgcttct gttgcttcgc atcataaca 529

<210> 2778

<211> 552

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052a11a1

<400> 2778

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tcttccccct ccattaactt ccattctccga cccacctcct cttttcgatg gcaccaccag 120  
gttgtagatc agttattctt gcccctatgc acaacgtgtg tggatcgcta ggaactacaa 180  
ggggctacaa gataagatca attcgggtccc tattaacctt caagacaggc cagcttggta 240  
taaggagaaa gtctaccctg aaaataaggt gccatccttg gagcacaatg gcaagggtgtt 300  
gggagaaaagt cttgatttga tcaaataatgt agatgcaaac tttgaaggga cacctttgct 360  
tcccagtgat cctgccaaaga aagagttcgg tgagcaattg atatcccatg ttgatacatt 420  
cagcaaagac ctgttcgttt catttgacgg ggatgctgta cagcacgccca gtcccgcttt 480  
tgaatacttg gagaatgctc ttggtaattt gatgatgggc cattcttgct tggccaattc 540  
agttggtgat at 552

<210> 2779

<211> 381

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052a11d1

<400> 2779

aagaaatcaa ttatgaactt gaacctttat ttgttcaccg gggttggagt tcaaaactgc 60  
acaaaggaga cttgatctca aaaaatgaga aaaggaaaac aaaaatcaca tttaaaggat 120  
gctcttcttt tcaactggtg gggctctttt caataatagc tattaacttc agggatcaat 180  
gccttcaatt ttgggttcca cttctgaata caactggctg agcttctcaa tattatcttc 240  
tgaaggttcc caaaaaccac gtccattggc ttccaagaat gtctgcacca gtttcctgaa 300  
ggagtttga ttaatgtca tgagcttggt cagaatttgc tcattttgaa tgaaaactgt 360  
gttggctttt ttatacccc a 381

<210> 2780

<211> 408

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052a12a1

<400> 2780

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tgttttctgt tagaggcagt agcagtaaca attggctaca cggggactaa ataaaacttc 120  
tttgtccctg aacgaaagtt gtccatccaa ttttttaggg ataatttcat aatgtctccc 180  
ttttttgttc gatatgtatg aaacctgtt gggcatgcta aatgccctgt tctctttggg 240  
ctctctgttg caaaccatct gacacagact tgggtgtatt tctggccaac tcacaggcta 300  
taacctttga cactctggca cactgttgta tggctgtat tatgttcacg tcaaagagat 360  
cttttatatt actgactaaa aaaaaaaaaat tatttctaca ttaataat 408

<210> 2781

<211> 386

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052a12d1

<400> 2781

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 ttgatcgacc aggaacaac agaaggaatt cagcatttct aaagtttacc actccctaata 120  
 ggtggtcaaa agcaccaaca tgctcatttc atttcctaaa cgttggtgctt catatctccc 180  
 caagataaat ctgcttgta ctgctgcaag atccaataat aggctcattg ggatgaaaaa 240  
 cacactcatt aacagatcca ttgtgaccgg gaagcttata caagatgcgg cgagaagtgg 300  
 tatcccagat gtaaaccatt cgatcagaac taccagctgt taccttgctt ccatcaggag 360  
 accaaccaca cttcaacaag ttcttt 386

<210> 2782  
 <211> 539  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b01a1  
 <400> 2782

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 ctagtctccg gaggaagatc aacactgaac cctaacgccc ctctttacat tcccgccgcg 120  
 ttccgccaag tggaggattt ttctccagaa tgggtggcagc tggtgacgac actgacatgg 180  
 taccatgact actggctaag ccagcagcac gatgatggag ccttctatgg cgaggatggg 240  
 tttgatggca atgatgtggg tgatttgctt cctgattcgt tcgattttga tgctggtgaa 300  
 gatctttttg aagagtttat tcgatcttct gaatcccaag aagaaactgg acccaaagga 360  
 actgcatgag ctttttagaga tgaacccttt taaaagaagc taccaaccta agagactgga 420  
 cccaaggcct tagcttttagg tcatttagct gatatgtttg gatcatgttg ttatccgtag 480  
 cttcaacttc ctgtaacttc ttgataggca aggattcaaa cttccaatct atccttctc 539

<210> 2783  
 <211> 209  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b01d1  
 <400> 2783

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aatgacggat cacaaaactg attgaatgat ttttaatacta cagtcttcct ctggaaactt 120  
 gcgtgctcat acttatatcc ccagacccaaa agtgtaacct gactaaccta gcactgaact 180  
 tatgaacttt ccctgaatac cgtattgat 209

<210> 2784  
 <211> 603  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b02a1  
 <400> 2784

gaatagctgg tcgacacgcc agccagatcc acaaatcgga aagaatcaga gcgccgtcaa 60  
 aaaccgccgt ccacggcggg gaaactcgcc ttcgaatcca gagcctctct cggttcctca 120  
 ctcttctcac atcgagcgca acgccaaaaa atcgaatttc acgatggaag agttggagca 180  
 gtggaaggaa caactttctc acttcgctaa cctagctttg gatcgtcttc tcgagggtcc 240  
 tccgaatcag ctctacgcag ctgctgcaat cgtgattttc acaacgctgc ttcttctctc 300  
 aattcggttg ttcaagcgtg cgaagtcaaa cactgttggtg ttggccgggc tcagcgggag 360  
 tggaaaaact gttatcttct atcagcttag ggatggctct actcatcagg gtactgttac 420  
 atcaatggag cctaataag gcaactttat tcttcacaac gagaaaacaa ggaagggcaa 480  
 gattaaacct gttcatgttc gtgatgttcc tgggcattct cggcttcgac cccaactgga 540  
 tgagtacttg gcctcagcag ctgggatagg ttttgcgta gatgcttttg actttttacc 600  
 aac 603

<210> 2785  
 <211> 95  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b02d1  
 <400> 2785

attaatatta atatagtcaa tatgttatag actgactgtt caaagaacat caatttatgt 60  
 caatcttcca attcgtacta tcactaaaat gattg 95

<210> 2786

<211> 524  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220052b03a1

<400> 2786

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tcttcttggt gcaatctttg ggccttatt atggatgctg gaactgggtt tacagctcaa 120  
gtttacaagt tgtcaacctt tttcttgac aaggaatgga ttatggagca gtgggataaa 180  
aacttttaca tcaattctat tgcagggagc aacaatggca gctctctgt ggtgatgtca 240  
aaaggtagcg agtataactca acaatcttac aaagtgagt aatctttccc cttcaaatgg 300  
ataaacaaga agtggagaga aggttttcat gtcacttcaa tggctactgc tggaagtcgc 360  
tggtgtgttg ttatgtctcg aaatgctgga ttcagtaaac aggtggttga acttgatttt 420  
ctctatccaa gtgagggcat tcataaacgt tggngataaa ggttatagga ttacagcaac 480  
cgcagctaca ttgcatcaat ctgctcttat attaagtatt ccga 524

<210> 2787  
<211> 341  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052b03d1

<400> 2787

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tcaaccccat atgattcctt ttatcatgtc aacgccacgt ccgatgatga gccaccaat 120  
tgtgttctac ctaggaacca taggcctcgg aacctgttct tcagaagtaa attattctga 180  
aaaataccgc tgtcatggca ggggctgtgc catatgctac gtgcacatat gcgaggctct 240  
gacacttcgt acgaatatac tactattatg caataggaca cacactgcta atgccattgg 300  
tcctatcata aatcggactt tacgcaagg gaaggacgaa c 341

<210> 2788  
<211> 489  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052b04a1

<400> 2788

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tgtgaccaca agccttcact tgactctctc tctgtctctg tgtctgggtct ctctctctct 120  
gtctctatgt tgacaccctt ttttctgttc tcagaccgga ccatgcaagc aagtatatta 180  
cactactcac tcaactgagac cgtgggtact aacatcgcca ccgttaccga cgctcaggcc 240  
aagggcgccc gcgggctggt ccgtgcctac gtgacctgac tagccggaaa cggcgactat 300  
gtgaaaggag tcggtggctt ggccaaaggt gtgatgaagg tgaaaagcgt gtaccctctg 360  
gtgggtgcag tgttaccgga tgttgcaaac atcaccgaaa catggtgacc ttccaaggctc 420  
gcattgctag agaagggtgaa cccgtgtacc ctgctgagaa tcagacgcat accgccatgg 480  
catattacg 489

<210> 2789

<211> 406

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052b04d1

<400> 2789

gaacagttaa taaagatgtt tatattatcg cagcatgtat aagattcaat cataacaaca 60  
caagaccggc accagaaaat tattaaacaa acaaagcaac aggcacatac ggtagagggg 120  
gaatatatca cacactctca caactgatca caagacgtag gaacagcaga aacggactcc 180  
ttatcaggat catggtgcac caagaagtgc tgaagtcgag cattgccc aa attcgaacag 240  
ccactaaaag caccgaaggc cgatgaagcc actatcccat cggaggaccc actcatgtgg 300  
ttgtcagcat gaagctcgga aaaacggcgc tcgaaatgga aaacaagcta cggaacgcc 360  
agtagaggag accctgatgg caaggtgaac cagagatcca accgtg 406

<210> 2790

<211> 313

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052b05a1

<400> 2790

gtcatcaaga gtatgatata cctgaaatgt gttgatatgt atgatactgt agtcttgaca 60  
tggtataggt aaatatatga tgtccatgaa tgaatggctt gttataaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaatctacct aacatccaca actcaaaact tctccacaca 180  
caccaaataa actaaaaaaaa ccctacacaa aaaaactaaa caaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaa aaaaaaaggg ccccccccca ccttcacccc cccccccccc caaatataat 300  
tcccccccca ccc 313

<210> 2791

<211> 233

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052b05d1

<400> 2791

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tataaccatg aacaaaaatg gactactaga ctctaagaac agcacataaa agacaaaaaa 120  
ggcgtcaaat taatcaaacg gaaacaccaa ctgcaactgc tgaagtggca gacaaacaag 180  
gatcagaacc actgcaaaca acacagcaag aagagacctg gacaaacaac tcc 233

<210> 2792

<211> 596

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052b06a1

<400> 2792

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atttgtctgt ttcattgtgag gatggctttc tggactatct tagaggaatt gactgttctg 120  
atgttgagtt ctatgctatt cccaaaggat cagttgtttt tcttaagggtg cccctattga 180  
gaattgaagg tccaattgcc gttgttcaat tgctggaaac accttttgtc tatctaatta 240  
attttgcata attagtttct actaatgctg caaggcatcg ttttgttgcg ggaaaaccaa 300  
aaactctact tgagtttgga ctacgaaggg ctgaggggcc tgatgggtgga gtgggtgcat 360

caaagtacag ttacattggg ggatttgatg caacaagggt cgttgctttt ttaatacctt 420  
 aggttgctat tgtataactt cactttttca tatggcacac caatagcaac gttgcagcag 480  
 gaatgttatt tgggattccc ctctgtgaca ctcatccca tgcattcggt agctcattta 540  
 tgcgatcgaa ttcactacgt ggcaattttg ctgagaccca tcaaagtgag cttgcc 596

<210> 2793  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052b07a1

<400> 2793

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 cagctcctgt ttggcttgaa actggtgacg cagttgcaaa tatgtattct gagctgcggg 180  
 aggaggctcg tgatcatgca cgtttgcgta atgcatattt tgagcaggca cggcaagcct 240  
 acctgtttgg caacaaggcc cttgcaaagg agctaagtgt taaggggcaa ctgcacaacg 300  
 tgcatatgaa agcagcacat ggaaaagctc aagaatctat ttatcgccag aggaatcctg 360  
 ttgctccaga gaatggaaga gggccccaaa gaatgataga cctacatggt ctgcacgtta 420  
 gtgaagcgat tcacgtgctt gaacacgaac tgagtgtgct acgaagcaca gcctgagccc 480  
 ccgagcagcg tttgcaggtt tacatctgtg ttggcactgg tcaccatact cggggctccc 540

<210> 2794  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052b07d1

<400> 2794

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 aatgcaaaat taggggtaat ccctaattgtc ttggataagc ttggagactc aagtcttaca 180  
 aatttaacaa aattaacata ttatcataac caaaacaaaa gaaggcatta ctgaaactct 240

ccaatcacaa acaaaaaaag atggcaatcc actcagtctc ctttcttcct aaaggagcat 300  
 ccctcggtta gccttgcccg gccaccggtt ggttgacaca agacagtctg gcagtttccg 360  
 catacaacaa cagtctgaga gtggctaaag acagtgggta tgttgaagca accctggcac 420  
 ttaacattca tgaagaaaga g 441

<210> 2795  
 <211> 570  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b08a1  
 <400> 2795

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 tgcggaaacg ttgatcccaa atgcaccctg acaaccggct accgagcagc gggcactcga 120  
 cgccgtcacc gacgccgtct ccgctccggt cgccgaggct ccgccacgca gggcggtcca 180  
 aggccgggcg gttctctccg agccggggga gcggtcggac cgccgcgcag cggctcagct 240  
 ggatgttcct ctctgttctg cttcgacgac agggcggttt tctcttcgct cctctcattt 300  
 acatctccgg aatgtctctc tacatgggaa cggcgtcggt cgacgtcggt ccggtaatta 360  
 aacaccgtcc cgcgcctggc tccgtctacc ggagccctca gctcttcgcc aagctccgtc 420  
 tcgacatgga ttccgataat tctccggcg atgcgatatc tacaatatgg aagtatccct 480  
 atagaggtgg tgagtggtag ccatgtgtga acggatctta gaagacctac ctgattaaaa 540  
 ggcacatata tgtggaggct aatgtggctt 570

<210> 2796  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b08d1  
 <400> 2796

gggcaaata ttttaccxaa aaggatgtaa aaggaaataa accatgaatt taacatctgg 60  
 cgaactgacg caatttagca gggggtacgt ttaaaaccga aaaaacaaaa tttcccttta 120  
 gaggggcact aatactacct aaattattac caggacaact aggggtttga tgctctaggg 180

gaaatctgat aacctggctg ggccaacacc attctgattg agccttttagc cgtcaattac 240  
 ctaatagcct tccttggccg ggaaccctta atccttaaac gggctgagag aatggcagga 300  
 gtaatgaccc tgtattcggg tgcctcatag agggacttg 339

<210> 2797  
 <211> 587  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b09a1  
 <400> 2797

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 cgaggtggtg ttgaacgatc gattggggaa gaaggtgcgc gtgaagtgca acgacgatga 120  
 caccatcggc gacctgaaga agctgggtggc ggctcagacg ggacacaagag ccgacaagat 180  
 ccgtatccag aagtgggtaca ccatatacaa ggatcacatc actctcaagg attacgagat 240  
 ccacgacggc atgggtctcg aactctacta caactaaaca caaggtgtgt tttatgcatg 300  
 atatattact atgatctggg aatgggatga ggcgccaaat gtaattttga cttgcgaaag 360  
 tcctatgat ttgaataatg tacatccccg aatgatattg ggtattacat accgatgaca 420  
 ccctaagttg ctttggtata tataacctat ctgatgactt gttgctaagc tttattaatc 480  
 tgatcggtgg aagtgtttga tcatgtccaa ttgctatatt aattatttga tcttcgctac 540  
 tttaatctaa ttcactctca atggatgtta gagcttacga catgaat 587

<210> 2798  
 <211> 546  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b09d1  
 <400> 2798

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 gtacaagttt tagaatgaaa aatgaagcaa caagtgttg tagtggtagt agtagtagta 120  
 gtaagcatac aaaactacaa tggcatggta catacatata ataattgaat taccaattca 180  
 gaatttgatg gctctcactt ccacttggtg gcaacaatgt cagccaaatc cacaaccctt 240

tgggagtagc cccactcatt gtcataccaa gcaatcacct taaccatgtc atctcccatg 300  
 accatggtca acgatgagtc aacggttgag gacacatcag tgcacctgaa gtcaacagac 360  
 acaagtggct catcacacac agagaggatt ccctggagct cattgtctgc actctctctg 420  
 aatgctgcat tcacttcttc tgcaaggctc tctttgagac ctgaacaacg aggtccacca 480  
 ctgagacgtt tgggtgttggc acacggagtg caatgccata gagtttgccc ttgagggttg 540  
 ggagga 546

<210> 2799  
 <211> 540  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b10a1  
 <400> 2799

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 atcatagagc atattataag agagtgaata ctaatggagg ttggcctcaa gaaggagaac 120  
 atgggggttg aggaaactga gttaaggctt ggactgcctg gaaacggagg cactgaagaa 180  
 gtgctcatca ggaagagggg tttctctgag actgaaactg gtcatagaaga tgagtctgcc 240  
 accactgtgg atttgatgct taatctttct tctaaggagg ccgcaaccac tgctgctgct 300  
 gctgcagatc caactgataa gcacaagact ttgcctaagg agaagaccct tctgccagca 360  
 gatcctgcta agccttcagc caagacgcag gtgggtgggtt ggccacctgt gcggtccttc 420  
 cggaagaaca tgttggtgtg gcaaaagagc gttggagaag agagcgagaa gaacagcagc 480  
 cctaatacaa gctttgtcaa agttagcatg gatcgagcac cttaccttcg caaagtggac 540

<210> 2800  
 <211> 510  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052b10d1  
 <400> 2800

gtacggtgag agacctttct atgatcacat gacaacaacg tgtagtagtg tacctatcta 60  
 cattctacaa tagctgtaca catgctacta ctactactag gaacagggtca acacacatgc 120

accgttggat cgtcgtcgtc atcatcacat agcaaaatac caaagcaaac ggtggagcca 180  
acacatgcgt ttccagcttc aatgtttctt tctttcttac tttggcctag ctaagctaac 240  
ttgatcaata atcgtatgtg tgtgggtcgca caggcacact catggacctt gagtctcgtg 300  
ctaccgtgca aatgcgaatg ggcggcgcgcg gtggatttta tgtgacatgg ttttaaatta 360  
cgattgtggg cgcattggtga gtcagaaaat cttagagca attgcggatc gtaatttaaa 420  
accatcatga tgtgctcaaa aggacttggt gggccagtac atgaacatgt cctgcagcgg 480  
cgacaacatc tgattattgc cctggaattg 510

<210> 2801  
<211> 581  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220052b11a1  
<400> 2801

cccgtcttca gggtcgcata ctaagagtca ttttgttcta ctgtagatca tcagagcgac 60  
caaagcatca gtggcctgtg aaccagaagc tcttcacttt ggatgttatg taccttcatg 120  
ataaacctgg accagataac tgcccccagg aggtttacga tacactgggtg gaggcacttg 180  
aacatgttag tgaatatgag gggtatatct tggagagtgg acagggggtg gcacgtgttc 240  
tattccgtca tgtgctgata ctattgtcac atcctcagca gcgttgcatc caagagtatg 300  
ttgacatacc aaagtcaatt gcaaagaagc ctccccaggt ggagcctatg gctactgaag 360  
atagtgtccc catatcaagc caataatact atgagttggg aagtggatgg cagttgcatg 420  
tgggtcaacct ctttagggga atggaatatg atcataattc agcaatgttc aagttggagg 480  
ttagtgtcac taggttgaca agggaatgat tgtactagcg taacagtttc tgaaatggat 540  
tcgattctac accctctttc gtctaagctg atccattact a 581

<210> 2802  
<211> 524  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220052b11d1  
<400> 2802

gcataacatc cacatgattt ttaattaaaa ataaaaaata cacaattttg ttgcaggaat 60  
gagagggcaa cccttgggac tataatcttg agaagccact tcggcttcca aaatagtatc 120  
ccgacttcca gagcaaaaca caaggctaata aatacaactt gaataacaag atacatgcag 180  
gcagaagaaa aatgttttcta gtatgtcacg atagaccaa taaaattttt attgctgact 240  
agtgacttgt gtgctaaggg ttctaagtgc gtacataatc cctatggctg cataaacatc 300  
ccctaccgga atcacaaatt cacatcagtt ggaggagtgt atactagcac atacttacta 360  
gttacataac agcagagtat tcaaccactg ttcgttcata gatgcatatc aaatcaacaa 420  
ccttgaaggt cacgccacct gagataaact aaccctgcc gataatgagc gtatgccccca 480  
gccaccacca atatatgaaa caattggtga ctgtgtcccg caat 524

<210> 2803  
<211> 546  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220052b12a1

<400> 2803

gccagcgcca aagctggcca cccaactttc cttttggtga gggagtccac tctctccaac 60  
cccgcaaaat caccctcat cgacaatttc aaaggcctcg gtgtcaatct tgttttagga 120  
gatctatacg atcaccaaag tttggtgagt gctataaagc aggtcgatgt ggtaatttct 180  
actgtaggac acctgcagct agctgatcaa gataagatca tttctgcaat taaagaagca 240  
ggaaatgtta agaagttcta tccatctgag tttggaaatg atgtggaccg gactcatgca 300  
gttgaaccag ccaagtctgc atttgcaaca aaggccaaag ttcgccgagc tattgaggct 360  
gaaggaattc ctttactta tgtgtcaagc aacttctttg ctggttactt cctgccaac 420  
ttgtcacagc ctggagccac agctgcccc agagacagag ttattatcct aagagatgga 480  
aaccncacag ctgtttttta catggaagag gatattggca cttataccat caattctgtg 540  
gatgat 546

<210> 2804  
<211> 385  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052b12d1

<400> 2804

cattcgaatt cattttatatt atatattaat attatattca aatgaaataa aaagatatta 60  
aaagatacta attataagaa ttgaaagt aaattataaa gttattaaat gattaatcaa 120  
tttttttcta cctgttcctg tagtaaaaag agttccatct gttcttgaat agcttccttc 180  
aaaaggactt ctgcttcccc agtgaatgtc ttggtagaag atatgatttc tttgaattga 240  
ggtttattcg tgtttaagta agcacgtaac tcaacaagaa atttccttac ctgtccaatt 300  
tctaataaat caagataacc attcgttcca gtataaatag ttattatctg ttcttccacg 360  
gtaagaggag ctgattggga ttgtt 385

<210> 2805

<211> 547

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052c01a1

<400> 2805

taatgatcaa aatcacaagg aaatgaaaga gcaagaaaat tggaatatgg atcacccttt 60  
aagagatgaa gctaacaaaa aaatgttgat atgatgtgca atctgagagc aaacccaagc 120  
caaaactgag aggtccctc ttcattccatt ctgagctca aggagattct tcggtgggaa 180  
aaatccaaga ggtttgaaat tcgaaggcag ggaagatgga ttatttcact gcaccaggaa 240  
gaaaccatct ctttgctcca gggccggtta acattccgga ccagatcatc cgggccatga 300  
acagaaacaa tgaggactac cgttctccag caattccagc tatgacaaaa actttgcttg 360  
aggatgtcaa gaagattttc aagaccacta ctggaacccc atttctcatc cctacaactg 420  
gtactggtgc ttgggagagt gctctcacia acacactgtc tcctggggat cgaattgcat 480  
cgttctgat tggccaattc agcttgcttt ggattgatca gcagcaacgc ctgaagtta 540  
atgttga 547

<210> 2806

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052c01d1

<400> 2806

aaaaccgaaa agatagattg attttttata tgataataat tactaaaaaa aatcaccaag 60  
tttgagaaga ctgggtatta tataacatca tcatgggtaa tcattgatca tcccctgaac 120  
cattcaaatt cgtccatata gcaattccgc ttgtccctac agccaaaaca atcaccacta 180  
ttgccatcac ttgatctttt gactttgata tcccatgcat gtccctgaga acaattgcag 240  
caggggaagat gaatgagggtg gaaacaatgg ctgtggatcc caagaactgt acaaaatacc 300  
atatgtctgg gatggtcaca gcgaccaagt atgtgagggc tagcaaagtc aaagtgagtg 360  
acacaaatct tgggggtgtct gatgcaaggg gaggcttatt tctgtttgag aaaattagtt 420  
catctatgtt ggccctcagg gaataggtca cgattgggaa cacaagtgt agatggagtg 480  
c 481

<210> 2807

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052c02a1

<400> 2807

cgctgaaata gatttttttt ttttgggtat aatattgatt gtagtagtat ttattttatc 60  
ttctgatatt atattttcaa ttttgcgtgc aaaacattat tagcgatcaa tttgaaattg 120  
atacagagct gagagcatca aggaatcgaa gaatagaaga ttcatttctt tttctttttg 180  
atatggaagc tgatgtttct attatttttg ttgcgttttc aaaaccctaa attggagaaa 240  
tcccaatttc tcttctgtgc tttctgcttt ggatgttttt caaccaaaaa attgtgcttt 300  
tcaaattctt tgctctgatg ggtacttcaa atcttctctt gatattctct ctgatgagcc 360  
tgtgtgctat ggcggcttcc aagggtggtgc ttattgggaa taatatcact ctctcctttg 420  
atgatattga agctaatttt gcccacacag tcaaagggtc tggaaaatat ggggtcttat 480  
atgtggcaga aacactggat gcctgtgcag aattgaccaa ttaagttg 528

<210> 2808

<211> 445  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052c02d1

<400> 2808

ggatgacaaa gtagtttcat tgatatctaa acacctactt agagggttaa tattagattc 60  
 tcaaaaataa aagtaaaatc gagcccagca tgctatggct atatgacagc aaagacacgc 120  
 agcataaggg tgatttagtg gacaacttat cggtcctttt ggccatttac caatctatta 180  
 aataaaacaa cgggctactg ccaaaccagt acataaattt ttgggggtcca cattggaagc 240  
 gcacgaagat gttacagaac aaaaaaata atcatacttc ggccataaga aatccaaaac 300  
 tatatataca cattaactca acttggacaa aaaaatattt taacgaagtt cagaaacgaa 360  
 aggaaaatgg ccaaggtgta aaattgaatt tatttcggac acgaattaca aatgtcacct 420  
 tcggtctcct agatagaatg tcgga 445

<210> 2809  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052c03a1

<400> 2809

gttctctcac cgtgaaagag agagagaggt taggctatgg ctgatgagag cgttggtgag 60  
 tccccagtga agaggcagag agatgatggg gaagaaaatg gtgtctctgt ttccatggac 120  
 gcggaggggtg gcaaagaccc tcttagtaac gggttatcat ctgtgattcc tgggtgggtc 180  
 tctgaaatca gtgcaatgtg gcctggagag gctcactcct tgaaggtgga aaagattttg 240  
 tttcaaggaa agtcagaata ccaaaatgtc atgggtcttc agtcatcaac atatggcaag 300  
 gttcttggtt tggatggagt aattcagcta acagaaaggg atgaatgtgc ctaccaagaa 360  
 atgatcactc atctttctct ttgctctatt ccaaacccta aaaagggttt gggtatcggt 420  
 ggaggtgatg gaggggtcat acgagaagtt gcacgccatt tttcagttga aaagatagac 480  
 atttgtagaa ttgacaagat ggtttgatg g 511

<210> 2810

<211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052c03d1  
 <400> 2810

actaggatcttattcttacat agcattccct tgtaaagcat tgggtaacgt accacattat 60  
 tgctcaattg gtacatgagt gtttcaaaat aatctggatt cactgctaaa agaatacttg 120  
 ttttaatactt tgtgctcatg aataaaatgt acgtgctgta aataatgaga tgctagctaa 180  
 aaatgactat catgcactta tctacgaatt ggaactaggc gagactataa caaaggatgc 240  
 ctggacacag cctgggagag tgcttaaagc tgccacctgg cgaaatgaaa gccaaagcaat 300  
 actatcatca ttagtcaagc catgaacaag gacgttagca caattcttcc gacaaccgtc 360  
 gtgatatggc tcaactgaacc gcccatcagg accactaacy taat 404

<210> 2811  
 <211> 558  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220052c04a1  
 <400> 2811

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 tagctagggt ttgagatcag atcaggggtgt aagaaaaatc agtaatcagc aatcacttat 120  
 taacctagaa attgttatcc gtttgtttcc catgcaagaa atgttacaca gcaacacatt 180  
 catcattcac ctcttttcgt gacaaatcgc tcttaccgat taacaaaatc tcgtgtacca 240  
 gagtcaccac cgacatgggt tcgggttcgg tccactggaa cgtattcgac ggcgtgaaga 300  
 taatcacggc gacgccggag gcgctcatgg cggagatcga ctccgcgatc tcgaatctgg 360  
 aatactcacg tgccaccgct ctctggagg cgcacgagg atacgacgcg cacatggccg 420  
 acgaaaccta caaggcgggc tgcgccgncc tggccgtcgg caagctcgac gaggtctctc 480  
 gatctctgaa ctttttttcc tcgaagtgcc cccccgatta gaccgccgtt ttctctaaac 540  
 ttaacttgct cattaccc 558

<210> 2812  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220052c05d1

<400> 2812

gactagggtca ttgttattgc tacccatata cgggtacatg aatggcatcg aagaacgagt 60  
 tcacaatgga ttttactgaa atagcgacat actcatgtac catatttggc aaaaaggga 120  
 cataagtga tcaggttctg gatgtgtaaa cgggagatc aaaagggtgc attttaactc 180  
 tagaaccact gaacagcaat aagggagtct tgcgaaacac cgggagcccc gagtatagtt 240  
 accaagaccg acacataagt aaaactgcta actctg 276

<210> 2813  
 <211> 585  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220052c06a1

<400> 2813

gctgggtgga gctttacgca atcccattac actctcttct tctccatttc cttctattct 60  
 ctattattat atccttttct atttttattt ttctcattgc attctctaatt ctttaattct 120  
 tattctctac ccattcatat tcatccccgg tttttctctg aactgtcgc ataactct 180  
 ttgaaccacc gcaactaaag taacaacccc atgtcctgaa cctcactttt cttctcgcca 240  
 aagcttccaa ttttcgattt ttcccttggt ttccagagaaa tatcaacacc ccagaaaata 300  
 aaattgagag aatagaagaa aaccttttct ggggttaattt ggtaatttcc tttttcttct 360  
 ttcatgggta acataggaag cagcggctcc aacagccgcc ggagacacgg cggcggcggc 420  
 ggcagcggtg ggcggattca cccgcctccg ccgcaggtga tgccgacgtc ggaggtcacg 480  
 gtcaaccaat tcgtgtatcc tccgcncgca cgcggtatca caacttcccc ggtactaccc 540  
 ggcgccgacc accatgccgc gccgttgccg cgcgcgacgac cacca 585

<210> 2814  
 <211> 248  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052c06d1

<400> 2814

gattagataa ttttttttta ttccaattta cagggactac aagaagatcg aatcgtgggc 60  
atacaaagt ttttccaact aatgccccat cctagatgac ctacattggt ctatgggacg 120  
aaggagctat acattcttag tagttagtat gaatagctat caacggctgc ttcagaccta 180  
gatattgaca taccttatat taagatgctt gcaacacatt gggttataca cttttcccg 240  
cccgtaacc 248

<210> 2815

<211> 600

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052c07a1

<400> 2815

tggtgcctcg catgtaatta aattataatt ggctttatag tttcgtaatt taaacaaaaa 60  
ggcaatcgct acaattgact gcatgtttta gatatttgtt cacagtatgg tggtatgggt 120  
tcgtaagtaa aatggtttat ttactcgtat gtatacagtt taatgttttt gtgattagaa 180  
ttgaattgaa agtcgcttac tattaatatga ttcgttaa atcgtaatca ctatacaatc 240  
tccttcaaaa gagatcaatg tagctagctc gctcttgact gtatgatgggt ttacacccat 300  
gtatactgtg acgtatttta tattttcatg atttggtatt aatttgaagc ttcttacaat 360  
taaagtactc gttcaatata ttgtagtcag gatacaaac tacttcgttc accataattt 420  
tgattgattt aattaactat tatgttcact ataattttga ttaatttaata taactattaa 480  
tctttgagaa tagcaataat tattaatatt gggttcgagt ttttaacttg gtcaataaga 540  
tgctgcaaag tttatttatg ctcaacatac atttgctatt gatcaaccta tgtctgattt 600

<210> 2816

<211> 126

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052c07d1

<400> 2816

atgcatgtaa ctgttctttg gtttttgta cgggatacgg tgtccattat ttgttgagca 60  
cgaccgatca ctattataaa cagtgtcaaa tgagatttcg cgcggtgacg cttacttgtc 120  
tgtgac 126

<210> 2817

<211> 546

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220052c08a1

<400> 2817

gtgtctcatg gattcggagt gagtaaaaga aagcaagcat tgcgccatag tacctcatag 60  
tgattaataa accttcactc gtcccatttg gatttggatt ttggatttgg atttggattt 120  
gaatccgtaa tggcacccaa caacaacaga acaaagggat cccattttcc gcttctggcc 180  
ttcctcttcc tctgctcct cgcgcccctc ctcttctttt tcttcgcac gccccttcac 240  
gatcaagggtg atgactcagc tgtttcgagc gaaaagggtg ccagatcgaa agaatggcag 300  
gcattgcagg atcttaaatt gcttttttca aaagagggtc ttgatgttat tgtgtccaac 360  
acaaatgatg tggggccttt gagccttgag aatnttagaa aaaataatct gtctgcttca 420  
tggagagttg ctggattaag gacttcaaat gctatgaatc agctcaacca accagcagac 480  
aatgttagag aagagaagca caatgggaag gaaagaagat tttcagttga tcgtgctcag 540  
tggaact 546

<210> 2818

<211> 240

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220052c08d1

<400> 2818

aagcatgaaa cggtagaag tacgaggttg gggaacattg tgtacataat ctgtagagca 60  
ccaccattct ctacgttaaa gactattaaa tgaccttgca gccgtcgaca cggattttta 120  
ggggacacta tatggaggag taggaatagg cgacgcaggt gacggggcca gatcggagta 180

tggtgaagaa caaccctgga ggatcaccgg tcacggctta ccagtgaat gaacttctgc 240

<210> 2819

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220052c09a1

<400> 2819

ggaatgcagc cccaatcggg cggtaaattc cgtccaaggc taaatactgg cgagagaccg 60  
atagcgaaac agagagtggg ttcaagtgaat gatcgggtgtt cacttgatcc ttcataagtc 120  
gtcatcatca tcatcatcat caccgttgat tgaagaagat gccgatcaga aacatcgcca 180  
tcggaaggcc tgaagaggct actcaccgac acacgttgaa ggccgggggtg gctgagttca 240  
tctccacett gatcttcgtg ttccgcccgtt cagggttcgg catcgccctac aacaagctca 300  
ccgacaacgg cgccgacact cccgcccggc tcatctccgc ttccatcgcc catgctttcg 360  
ccctcttcgt cgccgtcttc gtccggcgcca acatctccgg cggccacgtc aaccccgccg 420  
tcaccttcgg cgccttcgtg ggccgcaaca tcaccttact ccgcccatt cgctacgtca 480  
tcgcccagct cctcgggtcc a 501

<210> 2820

<211> 320

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220052c09d1

<400> 2820

gggttatatg ttctcattca atcaagtgaac acattagcac atacgatcaa tatgctggga 60  
acaaacaccc taacgagcat aataggatca tcatacaacc cggacatctc gtccagcgtc 120  
cactgggctt atctagcaat gatgcgtaca cacctcttag catatcagat gtggcacatg 180  
atcaggaatc acttgtgggg gacaacctct cgggctaaga agccacttca ggcttgcaag 240  
agttatgggc acttgggaac gccttttagga ccccgcatg tgcaacaggg actaggacca 300  
cccacgctaa aaagcggggc 320

<210> 2821  
<211> 521  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220052c10a1

<400> 2821

gtcggttaag gagggccacc ttcaccacaa gggaaagaag cacaagctct ggagacgcat 60  
cttctgggga atagtgatct tcgccttcat cgtgttactg acagttctta taatctgggc 120  
aatcctaaag ctttcaaaac caaccttcat cctccaagac gtcaccgttt acggcttcaa 180  
tgccaccatc cccaacttcc tcacctcaag ttttcaggtc acgctttcct cgcgcaaccc 240  
caacgacaaa atcggaatct actacgaccg tctcaacacc tacgtaactt accggaacca 300  
gcaggtcacg taccgaacct caatcccacc ctcgtaacaa ggtcacaagg aagaggatgt 360  
gtgggtccccg tttgtctacg gcaactaatgt ccccgtcgca ccctacaact tcgttggcct 420  
cagtcaagac cagaccaacg gcaacgtcct cgtcctcggt aagattgacg gtaaggtagc 480  
atggaaagtt ggctccttcg tctctgctca ctacaacctc a 521

<210> 2822  
<211> 526  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220052c10d1

<400> 2822

atgtaaaatg taaccatata ataaacttat aaattatcac atactatcat tctcgatgat 60  
aaaaaaataa taataataat aatactatca tcctcctaac cggtaaaaaa caaaattaat 120  
aacaatatt aattaattaa ttaattaatt aattaactaa ctaactaaaa gcttgctctc 180  
tttagggaag taatagtaac ggaagaaccc aaggagagaag ttcccacttg aatctcgaag 240  
gaatcatagc gaagaaagaa ctccacaacg aaaagcctcg aaaccaaggt gacgaagtct 300  
tttcggcgcg attgcttggt cccaagtgtt ggagactcag tctcaggccc attggaccac 360  
agcacgtgct tgaggagctt ctccccttcc ttcccgacga acctgtcccc gacaaaactcc 420  
tcggccctct cgaagatcct aggatccttc gtcggaatg gttggtacct gaacagcatc 480  
tacccttgct tcacctgaaa cgcgtgggtc tggctctcaa tgatca 526

<210> 2823  
 <211> 585  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220052c11a1  
  
 <400> 2823

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 atcaatgctc caaagaacct gatgaacttc agtgcgтсca gttttcatgt tctgtccctg 120  
 tgatgaatgg aagaggattt attgagattg aggaccaggg tttgagtagc agcttttttc 180  
 ctttcattga tgtggaggag gatgtttgct cagaaatctg tacacttgag cctcttctag 240  
 aattaagtga aactgatcca gatattgaag gggcaggaaa aatcaaagcc aaaaatcaag 300  
 ccatggattt tattcatgaa atgggttggc ttcttcacag aagccagttg aaattaagga 360  
 тggtttctag tgtggatctc ttttcattga aacggttcaa gtggcttatt gagttttcca 420  
 тggatcatga ttggtgtgca gcagtгaгaa aactgttgaa cctactgttt gatggaactt 480  
 gтаатаcagg agatcatcct tcctcgaatc ttgcgctttc agagatgggt ctccttcaca 540  
 aagctgтаat гaгaaatagc atgctttaat ggaggtgctt тgaga 585

<210> 2824  
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 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 <400> 2824

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 aaagacattc aatatgccgt gagcacttgг taactggcgt agaaaacata cgttacaaca 180  
 agagggтсaa таатаaactt gatacctact ccgggccttg cattggaacc atcatatgtc 240  
 гaccctгaгa attcgggtaa гтаacatttt gtгaгaaaga accttgatga гcaagctгaг 300  
 cattaggact тggctгaaca tctctcttag cagatгaгtc tccacccttg гcagagccct 360

tcgtatcacc ctccatctct cggtatctag tgaggtaaatt tttaagagga tccatataat 420  
 cctcgaaacc gagagtgn gc catcgccaga gcaaaccatc ggcgttaata gtctttctct 480  
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<210> 2825  
 <211> 516  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052c12a1  
 <400> 2825

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 atggcaaggt acgaccgagc aatcacctgt ttctcccccg acggccacct cttccaggtc 180  
 gagtatgcc tcgaagccgt ccgcaagggc aacgccgcgc tcggcgctccg cggcaccgac 240  
 aacgtcgtcc tcggcgctcga gaagaaatcc accgccaagc tccaagactc caggtcggtg 300  
 aggaagattg tgaatctgga caaccacatt gcgctggcat gcgcggggct gaaggccgac 360  
 gcacgtgtgc tcataaacag ggcacgtgtg gagtgccaga gccacaggct caccgtggag 420  
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 cagagccgcc gcgtgcgacc ctttgggctt cgactc 516

<210> 2826  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052c12d1  
 <400> 2826

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 aggtttaaca gattaagcag ctgctccaac agctacacca cccttgagcc tggatttacc 180  
 atacagggtt tcttcaaacc ggattatctc attcttgagc ccataagcaa cttgagttct 240  
 gtcacaaatg ttactgatga ctttgtctag cacagactga tgaccatcac tgctgtaacc 300

tccagctttt tcaatcaaga accccaaagg agctacctta aacaacagtc tcagtttggc 360

tttgctgat ggtgatgaca cgttggtgaa gattcccttt tcttttacia taatct 416

<210> 2827

<211> 548

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052d01a1

<400> 2827

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cagggaaagg aaagaaaatc gccatcattg gtgtctcaac cttattgttg gtggctatgg 180

ttgtggcggg cacaattggg gtcaatctca atgagaatgg ttccaacaat gatatagagg 240

acaacaagaa agatcatggt gcttcttcca taaaagccgt ccaaaccctt tgtcatccca 300

caaattatga gaaagaatgc gaggaaagcc ttatagctgg ggctggaaat accacagatc 360

caaaagaact tatcaaaatt ttcttcaaca tcaccattac aaaaattggt gataaactca 420

aagaaactaa tattttgcat gaggttgagg aggaaccag aagccagatg gcacttgaca 480

cttgcaagca actcatggga tcttctatcg gggcaataac acggtcactc gatggaataa 540

atgagttt 548

<210> 2828

<211> 207

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052d01d1

<400> 2828

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gcgcgcaaca tgatggtgca aaactgtaca acttatgcgg tccttgaggc cgcatactac 180

catacattag aagctagcgg tctgggtg 207

<210> 2829

<211> 575  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220052d02a1  
  
 <400> 2829

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caacaaaacc aaagccagaa tctttctctc tccaagtctg cttgtagcag cacttccgag 180
acaagcaagg gctcaggctt gtccctctca aggtctgaga tccgtgtgaa ccgtgtgaag 240
gcaagggaga gggcaagga gagagcagca taagagaagg agaaggagaa agagaaagag 300
agtgatatta acattgcaca ccaccatcac caccacaatg tgaacaacat gtctcacact 360
gttccttca ctgagcttct cactggtggg attgggagca cggtaacagt taacccaac 420
acaacaacaa caacaacaac aacagcaaca agtcctaag gatcatcggg tcatcagatc 480
catgagggtc atgatcatga agctaattca ttcaacaagg gaagtcaaca acagcaacag 540
caacaacatt acctttgggtc tcaacagtga cacct 575
  
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<210> 2830  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220052d02d1  
  
 <400> 2830

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agatgaaaca catacatata gcaagcccct atagcactag tatgggtctt attccatagt 180
tacgtatagt acatatagct agcaagctag ctttattatt atgaccaat cttattccat 240
agtgtacat atagctagca ttattatta tgaccattc ataaaactac ctctaataat 300
tgtaactaat aacttcttgc ccttaagata ttatttcaag attcacacat catacatatc 360
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ggccacaatt aaatttcagg gatccacttg 450
  
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<210> 2831  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052d03a1

<400> 2831

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 aaatcaagcg aaagcttgcg caaagatcag agagagtaaa gtctgtggat ctacatccaa 180  
 cagaaccatg gattctagca agtttgtact ctggaactgt ctgtatctgg aactaccaat 240  
 ctcagaccat ggccaagtct tttgagggtta ctgagttacc agttagggtca gccaaagtta 300  
 ttgcacgcaa acagtgggtt gttgcagggg cagatgatat gtttattcgt gtatataatt 360  
 acaacacaat ggataaagtt aaagtatttg aggcacatac agattacatt aggggtgtgg 420  
 cagttcatcc tacccttcca tatgtgttgt catcatctga tgacatgctc ataaagcttt 480  
 gggattggga aaagggtctg atctgtaccc agaattttga gggacattct cattatgtca 540  
 tgca 544

<210> 2832  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052d03d1

<400> 2832

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 acaatgctat gtgctcaagc acatgctgta cgtgcatgaa atattgagta gcaatataaa 180  
 tctgactatc atgctcttat gaacgaattg gaactatgga cattcgatcg caaaggatga 240  
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<210> 2833  
 <211> 602  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052d04a1

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ctttccctgg tctcgcacca ccaccctctt tagccgttca aaaataatcg tagaagaaga 180  
agaagaagca taagaaagag aagatctttg atgaccctt ttgctaaaaa agagaagatg 240  
atgatgatgc tggccacaac tggcacacct tgctgctcct aggaactttg taacacacca 300  
caccacacta cactacactg cactgcactt atcccgtgtc cgaatcctca tgtgaatcac 360  
gaacacccgg gattttcggg tacctcaaac tccttcactc aatttttctca tcaccatgcc 420  
ctcgagtcac tacaccacca ccaacaacaa cctcaacaac aagactagga aacgagggtg 480  
ttcctcatct tctcttctct ctttggtcag aagataccgt ttcaagagag ccattttggt 540  
tggaagaaa gaaggtcaag ttctccagtt cccatgtgaa agactaacac aagttcttct 600  
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<210> 2834

<211> 580

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052d05a1

<400> 2834

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atcatcttcc tgatgtatgc tgagaaagcc aaaaagggtga gaatgattgg attatcgctg 180  
gcagttcttg gcatatttgc aatcatatta gttggaagct tgcaaataga tgacattata 240  
atgcggcggt tctttgtggg attcttgagc tgtgcctctc tcatttcaat gtttgcctct 300  
ccattgttta taattaaatt ggtcattcag acaagagtg ttgaattcat gccgttttat 360  
ctctcacttt ccaccttctt aatgagcacc tctttcttac tttatggatt attcaacgat 420  
gatgccttta tttatgtgcc aaatgggata ggaaccatat tgggattgat acagttgata 480

ttatacttct atttcgaggg taaatctaga gtgaactcca gagaaccttt gatagtgtca 540  
tatgcatgat cagttctgct gaaaagactg gagtgacaac 580

<210> 2835  
<211> 242  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052d05d1

<400> 2835

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tgcaattcat catagtcaat actaatataa tatctaaca ctaatggatt aaaccttgct 180  
atgcacatag cagattagca aatgcttgca acgcatcatg gtattcacta attataatac 240  
at 242

<210> 2836  
<211> 528  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052d06a1

<400> 2836

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tacatctcta tgggattatc actttcctta ctctcatcag cctgggaaga aatcgtaga 180  
cattcactat ttggtctgtc tttgaacttc acttttggtt ccaaagatgg ggctatgatt 240  
ttgagatcag gtagcttcaa gataagagaa tcagaaacta cttcaaaggg tgcctctacc 300  
accaactttt caagcaaatt gacggattgc aggcccgaac acatggtcct cgaaccaaac 360  
ctttcgtgca ttaaagatat ggagatcatg gaatcaaaga gcagtgaaca acaattgcag 420  
caccagcctg tcctgttct ctctctgcct aaagaagtgg ttttctcttc gccaaagaccg 480  
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<210> 2837

<211> 191  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052d06d1

<400> 2837

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ttcaattaat catagccaca acttctataa aaagtaaaaa attttgcatt aaaactctct 180  
aagcatatag c 191

<210> 2838  
<211> 518  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052d07a1

<400> 2838

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accgcaaccc caatctcttt cctcttcttc ttctcttcg ttcagtgtg cttttgaccg 180  
gtcaaaccct atcgcttttc tggagagagt cttccagttc gtctccgaac acagcgactt 240  
tctggcgacg gagagcgccg agaaggagat agcgttgctg gtgcgcgccg ccgggaagaa 300  
gaagagggag tttctcaagt cggagagaga aaaggccgag aagaagaaga gagaggacct 360  
caaggcctcg gaggagaggg aaaaatccga caagaggctg aaggaagaga aggaacccaa 420  
agccgaagac accagcaaag acgaaagcac ctgccaagtt ccaaacaag gtaatggctt 480  
agatttagag aaatactctt ggactcaatc acttcaag 518

<210> 2839  
<211> 434  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052d07d1

<400> 2839

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 tatagacggc gatcaagaca atttggtgca tgggctggtg gagcctcagc tagagcagat 180  
 cacacaacat aggcccaaaa gccgatcgtg ataagggcag tgcagatgac acgcaaagcc 240  
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 cagagcaacc gggggccaca gccaagacaa attccgtctg cccaaaatgc gcgtgctcgg 360  
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 atattcactg aatg 434

<210> 2840  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052d08a1  
 <400> 2840

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 ctggaagcag tgtcactact gtgtttcgga aagttcgaga tggtagaggct tctcggccag 180  
 gggacgtttg ccaaagtgtg ttacgggaag caaataagca cgggccagaa cgtggcaatc 240  
 aaagtgatca acacacagca agcgacaaaa gaatgaatga tggaacagat caaatgtgaa 300  
 atttccgtga tgcgtttggt gcgacacca aacgtggtgg aaatcaagga agtgatggcc 360  
 acaaagacaa aaatcttctt cgtcatggaa tacgtgctg gcggggaact ctttggcaag 420  
 tctccaaagg caaactcaac gaagatttcg cccgcacgta ttttcag 467

<210> 2841  
 <211> 507  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052d08d1  
 <400> 2841

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 ataactttca aaatccttta atgcaaatta ccgaaataaa actctagttc tagtacaaac 180  
 aacacctagc tataataatt aggggttgat accatagagc tttcgaatcc cgtctatatac 240  
 atcttgcgct agattcacct tcctagttcg aggtggtata gaaggatata tgatggctct 300  
 taggtccgac gagtggccta atccgagcaa gtgcccgatc tcgtgcactg ccacagattt 360  
 aagggtcaaac gcacttgta cgggcgattt ggtgacatcg ccagacgcca cccaatattc 420  
 gtcggcgta aagtggcacc tgccatcagt gggagcgaat gcatggccca atattccacc 480  
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<210> 2842  
 <211> 130  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220052d09a1  
 <400> 2842

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 tagtgcccct tttttatggc taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaaa 120  
 ataccttcat 130

<210> 2843  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220052d09d1  
 <400> 2843

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 tacatagtta aaacgaggtc aggtgcggtata agaataaaaaa tacataattc ctgccttctc 180  
 gtgagaattc taatagccaa atagcctcta ttttaatatg atcttcaagg aaccttgaat 240  
 cccaacaac caaatgataa tctcatttgt tagttaaaat tccatgtact gaaaggggtg 300  
 agggcttgtt ttggtcttag aaccactaag cccacggatc tccacttttt tccattcttg 360

cacaagggca cagcagcaac acatcaaag agagaggaaa tcataataa atccccctgt 420  
gatgttcaac attttccgaa gc 442

<210> 2844  
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<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220052d10a1  
<400> 2844

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gaagaaaaaa tataaaacac agt 143

<210> 2845  
<211> 501  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220052d10d1  
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taggcaatag gcatgtagaa ggatccatca tactaggagg gaagaggcct tggcggagga 180  
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atacaaatgg cgcacatgag actggcccaa tcgccctgcc tnccaaccgc gaaggggaac 420  
cttcccatgt agaactccag tatgctaacc ccaaagctcc atatgtcccc tgcgtacgcg 480  
tcgtattgcc cgtcggttatg t 501

<210> 2846  
<211> 533  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052d11a1

<400> 2846

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ggaaacagga gccaaaccct tctggccact gctattggag gcaaagttgg tgctgctgct 180  
gttactgtta gtcctagaag actcattgtg gtagctgctg ctgcaccaa gaagtcattg 240  
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ccaggtgact atggctttga cccactaggc cttgggaagg acccagcatt cctcaaattg 360  
tacagagaag ctgagctgat tcatgggaga tgggcaatgg ctgcagttct aggaattctt 420  
gtgggccatg catggagtgg agtttcatgg tttgaagctg gagctgatcc aaatgcattt 480  
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<210> 2847

<211> 287

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052d11d1

<400> 2847

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tgcaacaagg tttactaaaa acaatgttca ccctcaaat gaaaatagaa aaagagggga 180  
aaagaaaaca taggttaact taaaagaatt ctaagctatt gattgcccc gcaaaaattt 240  
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<210> 2848

<211> 505

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052d12a1

<400> 2848

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atgtgcgagt acatggcgcc atcgctggac gtgagacaag acgtagtggg gatggagggtg 240  
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<210> 2849  
<211> 433  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220052d12d1  
<400> 2849

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actatataaa atacattagg aacatcaggg cttccgattc aaacatgaac aaccagcaga 180  
tacataagaa atccttagca gctaattaa aataaccaga taccgctatt tagttgctgt 240  
atataatcca actcttcact tgaaacattt aggtgaatac tactacagcc atatgttgac 300  
cacctcattc ttgcatct gctgctcga gtgagcctag ttgaactggg gcttgagtct 360  
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tctgctcctt aat 433

<210> 2850  
<211> 526  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220052e01a1  
<400> 2850

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atcaaatacgg tcaagtggta ttgactcaac acgaatagaa aacggtgttc ctgtttctgg 120  
aaagcagcca tacactatta tgcacgatgt caacggaaac acacatgttt cagacctcac 180  
tataaagaac gtttctagtg caagtgagat ttcattctctt ctgcaacagg cagcaciaag 240  
caggtctgta ggaagaacac acatgaatga acagtcacga cgaagtcact ttgtctttac 300  
tttgcgata tctgggacca attcgaacac tgaccaacaa gtgcaagggtg tgttaaacct 360  
gattgatttg gctggaagtg aaagactgtc caggagtggg gcaaccggtg accggttgaa 420  
agaaactcag gctatcaaca aatgtctctc ctctctgagt gatgtcatat ttgctttggc 480  
aagaaacagg agcatgtacc ctttatgaat caaaattgac atacct 526

<210> 2851  
<211> 366  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220052e01d1  
<400> 2851

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accatattac tggggattct accccaccag tatggaattt tacagcccat tccatgatcc 120  
ttatcattat gatacacact gcagccacgt ttagcacttc tgaaatctgt ttactatttc 180  
ttgtcacctt ggagaagaaa gataaatagc tgactgagca tgatcacgga accaatatca 240  
cgatggatga tgctcgatgt tgttatcgag ctctgtcatc tttgcgcca gaaccttgtc 300  
cacttgcttg cgatgggttc caagacgaaa tgtgggatgg cctgcacctg aaactcctgc 360  
gccaca 366

<210> 2852  
<211> 509  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220052e02a1  
<400> 2852

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tacctcttcc tttgcatgct cttactctcc tccgccactc ccattctcgg ttgtggctac 120

tgtggcaaac cccccaaaaa gcacaagcct gggaaaaaca ccaaagacac ccacagtacc 180  
 cgatgttaag ccaccagtca caatccctcc cattgttaag ccaccagtca caatccctcc 240  
 cattgttaat ccaccagtca caatccctcc cattgttaat ccaccagtca caatccctcc 300  
 cattgttaat ccaccagtga cagttccacc cgttgtgctt ccaccaatag tgaagcccc 360  
 gggttttctc cctccaattc ttaaccacc aagtacacca acaccgtccc cggggaaggg 420  
 agggaacact ccatgttcac caccaaagtc ttctgcacag gctacatgcc ccattgacac 480  
 gctcaaaacta ggtgcttggtg tggatcttc 509

<210> 2853  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052e02d1

<400> 2853

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 atcacatatt tactgatctt cgaaaaaata tgtaaccac aaataagcat gttaatcaga 180  
 agcaaacgct tcttaggcg aatcatacat atgccagacc accctgaatc agtccccagg 240  
 tccatttaga gtctgcttgt gactacattg gcatactttc tcatagacct tatcgtgact 300  
 ggaccaaag catggattga cattttcaac tggagaacca accacactct ttagaagact 360  
 aatactggca gcccttgta tgcaa 385

<210> 2854  
 <211> 582  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052e03a1

<400> 2854

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 tgctacttct gtaatcaaaa gtttctgctg gcttaattga tatctcgcta ttttcagctg 120  
 gaataaaaaa ggaacttgct gcagctagga agatgatagc tgataggcgt gatcaagaga 180

aaaaagcata tcaagagaaa aaagcatata gcaagatggt ccaataacac tctgggtaaat 240  
 ccacatactc accaggtgcg actttggaag tgcaaaagtc ttgggtgaaag gcgaacccaaa 300  
 tatatcatag atatgttcta gatattatag agcacctgag cttatatattg gagcaactga 360  
 atatactaca gctaggtgta ttgggtgagc ttatgcttgg acaggtaggt gattgatgag 420  
 gggagctcct ttgattctgt ggtttaatat atgtaaaaat aaatttggtt ttattgttat 480  
 tttccaacc cttgttcctt ggtgagaagt gagttgatca acttgctgag aacatcaaag 540  
 taatctttat gattattttc ttgttggtga ctggtatgct tg 582

<210> 2855  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052e03d1  
 <400> 2855

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 tataagctta aggcaagtaa taaccaacta aaattcaagt ttgcaaaact atgatttctt 120  
 attataaagc ccctacccta cattcgggga aacttcaaaa ccactatattt tcattccaaat 180  
 tattcaatgc aaaggggaag caacatcatt gcctcagata gttgtcgtcg tcattatctg 240  
 tatattaacc tccaccacca gaaccgtatt tctttccgaa caagacgagc tgtagcttat 300  
 cataaccagc gagcactcca gcacctgtaa cagcacgtaa tatgtttgca ccggcacctt 360  
 taaagagtga cttagtaccc tcttttgcca caattatctt gaatgcttcc aaagagctct 420  
 tgtattttac agcttctcca gatgtcatca tcatt 455

<210> 2856  
 <211> 596  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220052e04a1  
 <400> 2856

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gctgctactc atgttggcat gctccatcgt gcatgttctt cgttcactac aagcaagaat 120  
gagaagaaaa tcaaaactaca atcttccacc aggaccctct cttctcacca tcattagaaa 180  
ctctaataca ctctataaaa agccacagca gacaatggcc aagcttgcca aaacctatgg 240  
ccccataatg cgtttcacca taggccaatc aaccaccata gtaatctcct caatagaagc 300  
cacccaagag gttctccaaa cccatgactc attattctcg gacagaacaa accccgacat 360  
cacaacctcg tacaaccaca accgttacag cttgggtttt ctccctgtct caccctctg 420  
gcaagaacta agaaaaatct gccacggaaa cttgttttcg gcaaagacc ttgacgcaag 480  
cacggacctt aggcgcgatga taatgnaaga gcttcttacc gatatncgcc caagagcctc 540  
aacggcgaag tgtggacatt ggaagacagc cttcatgcat gcattaattt ttatcg 596

<210> 2857  
<211> 371  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052e04d1

<400> 2857

acgaaaagga ggggttatat aggaaccaa caatgtttca cgtaggagat cagattctac 60  
attatcccta gaaacatact agtagataac aaaaccatca tgctgtcaac ctgaatcacg 120  
aatctactga cagagctaa tacagcattt taaactacat gctgccgcaa agtgactatg 180  
ggaccagtc cactctatac actacaggct aactgcttta actctaatta agagagaagt 240  
gtctgacca agtagcata gtggatgaca tgcaattgag cagtgcctgg agtgaggttg 300  
tatctagtg tttactatca ctggactccc cgacgatcgt tgccgttgca tctgcatgta 360  
ctcgagctac a 371

<210> 2858  
<211> 568  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052e05a1

<400> 2858

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ctgtcaccta gctagctatc aaactaccga ttcatagcac tcttctcttc ctcacttatg 120  
cgaaacgcaa acatggttct cgatctcctt ttccttatgg caatcttctc cgccatgacc 180  
actccgtcaa cctccgcgat cgacaccttc atcttcggcg gctgctccca ggccaagtgc 240  
acgcggggtt ccgcctacga aaacaccgtc aactccctcc taacctcgct ggtcaactct 300  
gcggccttcg ccaactacaa caacttcacc gttccagcct cttccgacac cgtctacggc 360  
ctcttccagt gccgtggcga cctccccaac gaccagtgtc cgcgctgcgt ctgcggtgcg 420  
gtcaccagc tcggcacct ctgctttgcc tctgcgggcg gtgccttgca gtcgacggc 480  
tgtttcgtca agtacgaaa caccaccttc attgggggtg aggacaagac cttggtcagc 540  
aagaaaatgt ggcccgctgt tgggttga 568

<210> 2859  
<211> 451  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052e05d1

<400> 2859

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attgccaaatt aatattagct gccaaagcaa caacaaaagc aaactaacct taaaaaatca 120  
tgggtgctca agcaatggta actttaacag tttttgattt taggggagga ggaagcttct 180  
caacaaccac agtgagaacc ccattttcgc atttagctgt aatggctgac acattagcat 240  
tctcaggcaa acgaaacttc ctctgcaaatt tctgaggccc tctcctcttc aacctaaaat 300  
actggcacc cttacatccta tccatcttga cgcttctct tccattgct tcttataaca 360  
agagtgatcc tatctttaac cgttacctac aaaacaaatt cacacatgcc aatgcaccat 420  
aacattaatg gaggggaaga aaagaatatt g 451

<210> 2860  
<211> 592  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052e06a1

<400> 2860

attttgagca caatggcctc gacacaatgc tttttgcacc accacgccct caccactcca 60  
 gctagagctt caacacagcg cctagttgtg agcaccaaac caaaccacat tgtttgcaag 120  
 gcagcacaga agcaggttac tgtccaagag ggtgaggaca ctactactgg ccttgtctct 180  
 cgcaggttgg cctcactgt gtcattggg gctgctgctg ttggctctaa ggtggcacct 240  
 gctgatgcag tctatggaga agctgccaat gtgtttggaa aaccaaagac aaacacagac 300  
 ttcctttcat acaatgggaa tggattcaaa ctctcaattc cctcaaagtg gaacccaagc 360  
 aaagaggttg agtaccagg tcaggttctt agatatgagg acaattttga ttcaaccagc 420  
 aatgttgctg tcatggtcac tgcaactgac aagaagtcca tctactgacta tggttcacct 480  
 gaggagttcc tatctcacgt ggattacttg cttggaaaac aagccttttt tgccaaactg 540  
 atgctgacgg tggtttgatt ccatgctgtg caactgcaat atcttgagag tc 592

<210> 2861  
 <211> 517  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220052e06d1  
  
 <400> 2861

gggcgaattc aaaatcaaatt tctcattaat gcagctataa gagtagacaa taagattgat 60  
 agactttaat atttacaagt tattttacat ttcaaaaatt cagattttcc tttcgggtgaa 120  
 agaatcactg ttaattagaa aacaaaggctc aaaagctttc ccagtacctt gggaagttgg 180  
 ttttgaactt cagaaatgga gactcctaga ttacattgat gcccatgttt gccgacattt 240  
 gacagcttca tggcgaacag ctctctttga atcgtaaga cactttgata ttgctcgtag 300  
 aacctgtgtc ctcataggat agatacgggc gtgggggaac tcagacaagg caacaagaca 360  
 ttgaatagct gtctctcgaa caagctgcaa aagtaggtga ggagacatca accattaaca 420  
 ttattgtgga ctttgattgg ccttggttaa ggagaaagaa cagaggctta ttgcacttat 480  
 tgacataaat ggaggatatt tgatttcctc taaatca 517

<210> 2862  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052e07a1

<400> 2862

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ctttcttata ttcttctttt tctctcttca ctttcaaaca caaaccctaa ttcactttct 120  
accaattcat tcgcaaacac cttttccaat ttccaacaca caccaaccat gggctacgaa 180  
gacaatccgt atcgtgacga ggacggagag cccttgatgg actacgacga cattcaatcc 240  
gatcgcgagc catctcccga gcctcgccgc caggacgacg atttcgatga ggacgtcgac 300  
gagtggcgcg gccgtgatcg gtcgcagacg ccggtctatg acaccgatcc gtcgcggtcg 360  
aagccgcgga agaggctgat caagaagagc gacgccggga agcaggcggt ggagccggag 420  
cttgaggatg aggacgtgga ggggtatgtt ccggaggcga tgttcgacga ggcggacact 480  
ggaaggaaga ggaagaaggt gaaggagggt gggagtggga ag 522

<210> 2863

<211> 507

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052e08a1

<400> 2863

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acttgacgta tgctatggcc ttttctgtct tgccatggca aaagggcttg cctgggtgggt 120  
gtgtgtttat ggagttccat tgcttggtgt caatggattt ttggtgtaga ttacattttt 180  
gcagcacact caccctgcat tgccacacta cacttgctct gagtgggact ggatgagagg 240  
agcttttagca acagtggata gagattatgg aatcctgaac aaggtcttcc ataattattac 300  
agacactcat gtagctcatc acttgggtctc cacaatgccca cattatcatg caatggaagc 360  
gacaaaggca ataaagccca tcttgggaga gtattatcgg tttgatggga ctccatttgt 420  
caaggcaatg tggatagagg caagagagtg tatttatgtg gagccagatc aaagtactca 480  
gagcaaaggt gtactttgggt acaacaa 507

<210> 2864

<211> 628

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052e09a1

<400> 2864

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gtttgacata aataaacctt tcaagatctc agaggggcag aagatcaaag ccaagacaac 120  
acactcttat atataaaaga gtgtctctga taatttgatc tttgtttctt ctctttctct 180  
cctttgagat ttttcagcac cccaccaagg ttttgtccga aaagcttgaa tttttgcct 240  
accctttaca atgatctctt cattgagaca acctgttgta gggatcagt gttctgatct 300  
tcttttgagg caaagacatg caaccctaata taaggcaagg tcctttttac cctctttgtc 360  
aagagaaaag ggtcaaagat ctcttgtttc agttcaaaag ccacttcaca ttgctgcttc 420  
tcttggtggt ggaaattttg tgtcagtga gagtgatgat gacaaaagg gtgatttggt 480  
gaagtgtgag gcctatgaag cagacagatc agaggctgag ggtgcaagca caccatcaga 540  
agctgcaaag aagggtgaaa ttgtgatata ttttgaacct ggtgggcttg aatgtgggtt 600  
ccatattata acagaggttt gatgctac 628

<210> 2865

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052e09d1

<400> 2865

ctctcaaatt tttagttctg cgatttacac ttaataattt cacatccgtt tcgtgatgcc 60  
aaattgcaag atttatatat tcaagcatca ccatgccgtg gagacaattt caaacttatt 120  
gtaaatttag atagaaacat actgcagagg tagaaactct tgatttgctt gataagtctg 180  
ctaaaaacat tttatcgatg taaaacttaa gctaggacca tggtttcaac tggtgggggt 240  
tgaatctttt gctgttggtt gccatcttca atctccaaa tttcaggtaa cgcttctttg 300  
atattatgaa tgctgttcag ggcgatgaca gctccaggga ccaaactctga atggcccact 360  
aaaacagtgt taagtccagt tatttttgca ctttcaacat ttctaact gtcacaaaag 420  
aaaattgttt tctttggatc cacattagca atccgaatag cagcttcaaa ggctttcaca 480

gatggtttac

490

<210> 2866  
<211> 523  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052e10a1  
  
<400> 2866

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caataacata acatcatcaa gcaggatcat cgatccaacc ttagtattca acccagagag 120  
attttagta attattacta caacaactta aaacaatggc aggaggaggt tatgtagatt 180  
cgggaaatgc aaagcaattt gaagggaagg tcaactgcatt cgtattgggtt acatgctttg 240  
tggcagccat gggaggctta ctcttcggtt atgatcttgg aataaccgga ggagtgactt 300  
ccatggaacc atttctcatc aaattctttc ccggtgtcta taaacaaatg caagatgatg 360  
tcggccatag aagccaatat tgcaaatttg acaacgagct ccttacacta ttacctctt 420  
ctctgtatct tgctgcttta gtagcttctt tctttgcttc ttccaccaca aggatgatgg 480  
gacgcaaggc cttcatgttt ttaggaggtt tgcttttact tgt 523

<210> 2867  
<211> 394  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052e10d1  
  
<400> 2867

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aaaaacccca ggggacaagc cgagagcacc aagggggggc tgcccttgac cagcctcaag 120  
ggacacaatc agcatgggac acataagggg cctgccatgc cacagggtgag ccaatatcaa 180  
tcttccgagc taaatcggtta tccggaatgc caactccatc ctgatagtg ccggccaagc 240  
tgaaagggac aaacaaggcg cctggtggga agacttgccg accagcggca ttggcaaagg 300  
cctcagatgt tcttgaccat ggagtgggac attccactga ctgtgacccc cgggcgggga 360  
aatgcacccc tttgtagctt gcaaccact ccat 394

<210> 2868  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220052e11d1

<400> 2868

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 tgatgctaag agtaaaaatg ataacgaata ggagctcatc ttatacatat atagatgtta 120  
 gacaacacac atttgagtta cccacccgga tatatttgga acgtctacaa aggcctgact 180  
 aaaatattgc atgtaacaaa gtacttccat agtgaatgta cctgacatgg ctatccctat 240  
 ttaaaattgc tccgtgactg catgctttct atgcgccgga catacctggg actatcataa 300  
 gaacgcgggc tggaaagatg cctatgtggc tgtgggtcca cccttggtg gtttctcagt 360  
 gatctacgga cgattatttc cttcaca 387

<210> 2869  
 <211> 533  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220052e12a1

<400> 2869

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 catttatctt aatacttagt tgttacatcc tcacagaatt attttattag ggtttcatta 120  
 gtacataccc tatagaaatc gtgtaagaa atcaatagta gaatctacta aagaaaaata 180  
 taagcatttc ttgtttgtga attgagttat aaccattaga ggcttaatta ttctttgatt 240  
 tttgttgta tggacctgtg tgtttagaag gctatgactt ttgatcttca tttatgaatg 300  
 tcattgatctt ggggggtttt ttagcattta tatatgtgta gtataaattg tttaacacat 360  
 gtcttaaadc ttcagcattg tggttttggc ccttttgggc cactatccat aattgatatc 420  
 tatgctatct atctcaaatt cgtgatcctt gtctgctgtt tcctttcctt tgattttcaa 480  
 ctgttttttt ttctgatcat gaatggaact ctgagatacc tctttttctg caa 533

<210> 2870

<211> 375  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220052e12d1  
  
 <400> 2870  
  
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 aaattgaaac taatggaata caaaaacatt gggcccctat tgggaccctt ttggaaaaac 120  
 ttggccccta gtttaccgga aaataaaatc cgtagcttta tgggttgact tttcccttaa 180  
 acaatttcaa aaaatcaaaa ataaaatttt acagcttggg aaaaatacct gaaactggaa 240  
 ttttcacttt ataacatact ttaatacaaa agggttttac tctaaaaggg atgatgaaaa 300  
 tttggaaatt taaagccgct aaggaaaaca ggtgtctcca gttacaaaaa ttttgattca 360  
 cttgagctga ctttg 375

<210> 2871  
 <211> 552  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220052f01a1  
  
 <400> 2871  
  
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 tttttgaggc aaacttactt gtcattcttt ctgaagtctt gtctgcaatt tttgctgaag 120  
 ttatgcaagg aaaaccagag ttcaccgacc acttgactca taaattgaag caccaccctg 180  
 gccaaattga ggctgcagct atcatggaac atatattaga tggaagctca tattgtaagg 240  
 cagcacggaa gttacatgag attgatccac ttcaaaagcc taaacaagat aggtatgctc 300  
 ttagaacatc acctcaatgg cttggaccac aaattgaagt aattaggcat gcaacacaga 360  
 tgattgaaag ggagataaac tctgtaaagt ataaccctt gattgatgtt tcaaggaata 420  
 aggactaca tggngggaat ttacaaggta cccaattgg tgtttcaatg gataacaccc 480  
 gtttagccat tgcataatc gggaaactta tgtatgcca ttctctgaac ttgtaatgac 540  
 ttctacaaca at 552

<210> 2872  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f01d1

<400> 2872

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 agagtcacgc gtacaaactc caaattaaaa tcagaaaaca taaagatctc aacaggattc 120  
 cactgagaga agagaagcag catcatcagt catcatccat acccaccaat aatccaacac 180  
 cgtgtggatc accatgtcta ggagagttgt ccggagtcag caacaacaac gggcttggag 240  
 gtcttaccgg agctggaacc caccttctcg atgtccttca cgacgtcaag gccctccacc 300  
 acctgcccga aaaccacgtg ctttccgtcg agccactccg tcttaacggg gcagatgaag 360  
 aactgagacc cgttcgtgcc aggtcccgcg ttctgcatcg atagaatgcc gggacccgtg 420  
 tgcttcttta t 431

<210> 2873  
 <211> 574  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f02a1

<400> 2873

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 tctctcttgc ccaccccttg ctggcaaggc cgtgaagctg ggcccatcag cccccgaagt 120  
 cgggagggtc agcatgagga agaccggcac caagcaggcc tactccggaa gcccatggta 180  
 cggaccagac cgcgtcaagt acttgggccc attctctggc gagcccccg cctacctcac 240  
 tggcgagttc ccaggtgact acggctggga cactgctggg ctttcggccg accagaaac 300  
 cttcgccaga aaccgtgagc tcgaagagat cactccagg tgggccatgc tcggggcctt 360  
 gggctgcgtc ttccccgaac tggtgtcccg caacggggctc aaagttggag aagctgtgtg 420  
 gttcaaggcc ggggccaga tcttcagcga ggggtgggctg cactacttgg gcaaccaag 480  
 ccttggccac gccagagca tgctcgccat ctgggccacc caagttttcc aatgggtgct 540  
 gttgaagggt atcgaattgc tgggtgggcc cctc 574

<210> 2874  
<211> 411  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052f02d1

<400> 2874

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attctgttag acatgacaac cttagcagaa catttagtac cagttccagg agaacacttt 180  
ttggaccctt tataccctac tatgaagatt tctttgccta tcatgacatt tgaagctgtg 240  
ggaatgccat tactacccca gagatggaga agagtaatag catcatccac gcaggaaatg 300  
gttttttgat atacctgact ttcttcaacc ccttgactct tctgatgtct tctccattgg 360  
attctaattt cttttccaaa actggccttg aactcttgtc gggagacgta t 411

<210> 2875  
<211> 218  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052f03a1

<400> 2875

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atcagatctt cttgtattct ttattcttc ttttttttat gaagagtttg tacagtattt 120  
ttaattcatg tctcgtgtgt tggaattaaa gtagatgtga aatgaagctt gagaatccaa 180  
tgtttttggt taaatgaatg catctgatct gaggtccc 218

<210> 2876  
<211> 277  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052f03d1

<400> 2876

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ccggctctta caattccttc aggggccctt cccttctggt tgaatatgac ttaccccca 120  
 aacgaaagga ccatttcagg cttacccccc aggaagggtta tacggcaaata acccctttac 180  
 ctcaatttcg tcgaccccaa ttttcgggcc agatcttttag cccctgtac atgggatgcc 240  
 tttgtcccc gaccgggttg aagctacagc ctaattc 277

<210> 2877  
 <211> 602  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052f04a1  
 <400> 2877

ggccattct agcaagagt aacgtgaaag acacggaaaa cgtaacggag gaagcattga 60  
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 ggccagcaga atctgctggc cctttgtttt tccttcaacc tttggtaatg gcactctata 180  
 ttacagggtc cctaaatgat gttttaggac cagaacacca gaaggaaatt attcgttatt 240  
 tgtataatca tcagaacgaa gatggagggt ggggattgca tatagagagt cacagcacia 300  
 tgtttgggtc agcgttgagc tacattgcct tgagaattct tggagaagggt cctgaagatg 360  
 gtgaagacag ggcaatggct agaggcagaa aatggatcct cgaccacggg ggtttggaag 420  
 ctattccatc ctgggggaaag ttctgggtca cggctacttg agtttatgag tggtcaggct 480  
 gcaaccact ttcaccagag atatggcttt tgccaagta cggcccccatt catccaggga 540  
 aaatggtatg ctactgtcgc ttaattacat gcccatgtca tacttatttg ggaagagatt 600  
 tg 602

<210> 2878  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052f04d1  
 <400> 2878

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gacggagctg gagctccaga cgtaacgaca cccggacaga ataatactga cactcactgg 180  
aacgactctt ccatgcttac ctactacag cacgtaacag gcgatctagg tgaaccacag 240  
atactaagac tttccgaatt ctgaggtgga caacggaacg cgacattgca aggcctgaaa 300  
cgatacatcc tacacgacag tatactttct gatccctaaa gcttgtgtgc aagaccgacg 360  
agcttgacc atacgcatga actgtgacac tcaactgacc ttggaagaaa catgcgggta 420  
ccctctgaac c 431

<210> 2879  
<211> 117  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052f05a1

<400> 2879

gtcgggatcc tataattatg ctccaacat ggggaaagac catttataat aacgatactc 60  
gagatgtgta tgtaatcttt attcccctgt aaacgaataa tccttttgat cttgtct 117

<210> 2880  
<211> 363  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052f05d1

<400> 2880

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ttcatgggaa agtttacaag atgctgacct gaacagatca tgttatggag atgaccatcc 120  
aaatctgaat gcacctgcgt tgagtaaggc tcggagacat tcatatgaag gatgaacagg 180  
caccgactta ataggtacat ggggaaccgt ccgcttgat ccttgataat gcaaaaacgg 240  
ttgatcattg gagggaggca cagacttaag atgagcttca tgaaccaatg gagaatgagg 300  
ctggggaaca gggctgtcgt ctaacacggg tacatgctat gattttccgg acggtgagga 360  
cca 363

<210> 2881  
<211> 539

<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052f06a1

<400> 2881

caacattatt gttttgaaaa ttcatatatt cgatctcatt ctgtgccctt ttctctgtgt 60  
ttaccaaaaca acaagtctct tcccttagta aaaaaatata cttctttctt cttctgaata 120  
tcaatcttgc attaatccat ggcagccaaa acatccacca acggcaccca tcattctcta 180  
cccgagtaca ttccaaaccg cattcctgac ccacattatg tccgcacctt ggacaccacg 240  
cttcgcatg gcgagcaagc ccttgagct gccatgacgt ccgatcagaa gctccaaatt 300  
gctcgccagc tcgcaaagct tgggtgtgat gtcacgaat ggggctttcc ttcagcgtca 360  
caggaagact tcaacgctgt caagatgata gcgcaagaag ttggcaacaa ctgtgacgct 420  
gatggttatg ttctgtcat tgcggcccta ttaggtgca atgagagga cataacgaga 480  
gcctgggagg ctctcaagta tgcccagagg cccaggetta tgcctttcat agcagtgag 539

<210> 2882  
<211> 542  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052f06d1

<400> 2882

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ctagtaccaa gcaaacgagt atgttctttg ctttgattat tgaaatgagg tactaaccat 120  
accgtaagta caccaccaa gtgctgatca agccaatcat ccacaatctt gtgcttcaa 180  
gatcaagcaa aggttcattt ggtttgaaac caagattgct ttgctatcac atcctcagta 240  
cccatggcaa cggacatcca actgatcagg tacaatggat gttccaatgt gtggccttgc 300  
aacgcttacc gctcttcaaa ctcaagcgat catgtcttca gaggtagtag tcaagcaagc 360  
cttagcactg ccactgctag caatgcggcg gctctgaagt aaacttctct taggctcttg 420  
tcgacctttt gaatcatttg ctcatctttc agtccaagct ttctgcatt ctggttcatt 480  
cagacaattg tatcccttag cttattaact tgccaagaaa gccaaacagc ccaaatccaa 540  
ac 542

<210> 2883  
<211> 500  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052f07a1

<400> 2883

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tcgagcttcg ttcgggacga ggaggagcgt cccaagggtg cctacaacga attcagcgac 180  
gagatcccag tgattttctt tgccggaatc gacgaggtgg atggacgcag aagagagatt 240  
tgtgagaaga tcgtggaggc ttgcgagaat tggggtatat tccaggttgt tgatcacggc 300  
gtggatcaac aactcgtggc cgagatgacc cgtctcgcca aagagttctt tgctttgcca 360  
ccggacgaga agcttcgttt tgatatgtcc ggcgccaaaa aggggtggatt cattgtctgc 420  
agccatctcc aaggagaatc ggtgcaggac tggagagaaa tagtgacata ctcttcgtac 480  
ccaacaagag agaggggacta 500

<210> 2884  
<211> 436  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052f07d1

<400> 2884

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tcagacaaga ggaggctgaa ccagccacat tattctatga gtcctattaa aattaagcac 120  
ttgactaaga taatgacaaa agaagcacag tgcatacaaa aaccaagggg tgaaatattg 180  
atcatgaaac taagcagtat gagaagggtg gtgctcttcc tggactactt catgttgctc 240  
ttgctcttgc tgtggttttt ctcttgcca ggtccaaaca atgtccttaa acgctggctc 300  
tatatcctgt ttaaaaagct tctgggtactc catggtgtca ccattggact ttctaagttc 360  
caccatatgg aagggtgggg aatctcaaaa atcttagcat caacacccaa agctgcttat 420  
ctgccttcct tggaac 436

<210> 2885  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f08a1

<400> 2885

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 acttgacgta tgctatggcc ttatctgtct tgccatggga aaagggctag cctgggtgga 120  
 gcgagtttat ggcgttccat tgcttggtgt cactggattc tcgacgtcga atacatttac 180  
 gcaatacact taccctgcat tgccacacta cacttgctgt aagtgggact ggttgagagg 240  
 agcttttagca acagtggata tagattatgg aatactgcac aaggtcttac ataataattac 300  
 agacactcat gtcgctaata acttggtgact ccacattgcc acattatcat gcaatggatg 360  
 cgacaaaggc aatatacccc atcttggtgag cgtctcctcg gagcagatgg gactacattt 420  
 gtcaaggcga tgaggacaga ggc 443

<210> 2886  
 <211> 508  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f09a1

<400> 2886

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 agagtcctga aattcacaca caaacacaac agtcttctcc tttctcttca cacattccat 120  
 atgcgagcat gattctatatt aatacccata ctacgtgaaa cactagacac acatgattgg 180  
 gtcttgaggg aatctttcat catgtggtgg ttacagccct atgttcctcg taatcctcag 240  
 tgtcgctcga cgttcacgat tctgtggctc ctgtacaaaa cgggattgat gcacaccata 300  
 agaatacgct tccaagggt cgtggattgg ttccacgtgt accagctcct gacagtaccc 360  
 gaatttacac taaaccaata tgcagccgaa taacctttag cgcaagacac tctctatctg 420  
 cattccgtac cttgaataga tgacgtgac tacaccagtc tcataaccgc taatgaccat 480  
 agcgacatcg gtctgcgcct tgaccgga 508

<210> 2887  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f09d1

<400> 2887

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 acacaaaagc ctatcttaga cgtggaagca gagcttgata aactctcttg cggtagtaat 180  
 gagcttcgca gtcaccatta ggatttgggg tacaagaaat tttttgggga ggtggttggt 240  
 tttagatgac tgttccacta ggaattaaag catccttgat tactgtgaca atcccacttt 300  
 ttatgaaata cccatctggt tcccttgagc cttcttgagc attgtcactg ttaataatct 360  
 tgacattttc cccaattcga gcattcttgt caataattgc ccttttgata tgagagt 417

<210> 2888  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f10a1

<400> 2888

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 tggaaaagct atgtcatcgg tttagtgggt ttacagatgt tagacaatgg gaatatatat 120  
 cttattgtct ctctcagtta tcgtttactg aaaaagggat gaaaaaacta atagagttat 180  
 ttaagtccta tgaacatgtc ttgtcagagg attctgttat ggaccatttc aggaacatac 240  
 tgaacaaggg aaagaagttt gcaaaacttg aacttaaagc ttgcattgaa gagtttgagg 300  
 ataagctgaa taagtttcac acagataaaa aggaacagga agttactgct cgaaatgctc 360  
 aaatccatca acagaagatt ggcagcaggg aaggttttac cgtgactata aattctgaag 420  
 atcacttgct atctaattct tcttcagatg aaacagaagg tgaaataatt gatgcttaca 480  
 ctgaagaggc aactatgcct ctaaagaga gatcacgata taaac 525

<210> 2889  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f10d1

<400> 2889

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 tagcgggcct tctcttcgc tattatttac aagccactgc caaaaatat atatcatgaa 120  
 acacaaaagc ctatcttaga cgtggaagca gagcttgata aactctcctg cggtagtaat 180  
 gagcttcgca gtcaccatta ggatttgggg tacaagaaat tttttgggga ggtggttggt 240  
 tttagatgac tgttccacta ggaattaaag catccttgat tactgtgaca atcccacttt 300  
 ttatgaaata cccatctggt tcccttgagc cttcttgagc attgtcactg ttaataatct 360  
 tgacattttc cccaattcga gcattcttgt caataattgc ctttttgata tgagagttcc 420  
 tgcctatacc aattgggaca ctgcctttgg cagccagaaa cctcttatca gcctccgtct 480  
 cgtaataatc tggccccatt aataac 506

<210> 2890  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f11a1

<400> 2890

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 ggccaagatc caggacaagg aaggaatccc cccggaccag caacgtctca ttttcgccgg 180  
 aaagcaactt gaggacggcc gtacccttgc tgactacaac attcagaagg agagtactct 240  
 tcacctcgtc ctccgtcttc gtggtggcat gcagatcttc gttaagacac tcaccggcaa 300  
 gaccataacc ctagagggtg aaagctccga caccatcgat aacgtcaagg ccaagatcca 360  
 ggacaaggag ggtatcccc cgaccagca acgtctcatc ttcgccggaa agcagctcga 420  
 ggacggccgc accctcgccg actacaacat tcagaaggaa tcaacccttc acctcgtcct 480  
 acggtctcgt ggtggcatgc 500

<210> 2891  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f11d1

<400> 2891

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 atgtaactat gaactatcaa tatacgatcg ttaataagtc cgaggtacac aactttaagg 120  
 ccatggtaca cttatgtgat caacaacaac ttccccctta ttggatacat tatgccaaaa 180  
 ccaggtagga gcattttccg taatacaaaa acccttatct ttggcatgat ttatcaattc 240  
 tggcatcagg atacgctcta aactctgatg catgacaagg aggtagccac caggggccat 300  
 attgatatgc aaacaatgcc acaatcggat aggatgcact attcgcgtga ccacacatgt 360  
 tctgacacaa ttacctcttg aagaagccat gttcacccca gctctgaacc catgaatttc 420  
 ttatgagcca atttgggaca cctttttda 449

<210> 2892  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f12a1

<400> 2892

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 accgtctgaa gtgcagcaat ggcagatgga ttgcattcgc agcatccatc ggtagttcag 120  
 aagttatctg gacagtctta tcttgtgtcc aggcttgctc ctaatcactc cagaaactgt 180  
 tctaccactg gtagttactt caatggaggt ttgcagtctt caggtttggt tccagtcacg 240  
 gcacacgcgc cggctgagaa aggggtgtct ggatttttgt tggatttcct gatgggcgga 300  
 gtgtcggcgg ctgtgtccaa gacagctgcg gctccaatcg aacgagttaa gttgctcatc 360  
 caaaaccagg atgaaatgat caagagtggc cggttgtctg aaccatacaa aggaattggc 420  
 gattgtttca ctgaaccat gaaggatgaa ggggtgattg ctctttggag aagaaacact 480  
 gctaattgta tcagatac 498

<210> 2893  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052f12d1

<400> 2893

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 caagagattg aagaaaacaa tggtataaaa tttaatttta gccctcgac aggtccaat 120  
 actgacactc aatgatacaa tagtactatg taacagcagc actgaagcct aagcctctgc 180  
 tctagaagaa caatacatgg gcagcccagc tcatggctca tcatccaatg accttattca 240  
 agcacctgat ggttgcagct ccactgtgga cctaagatac agctggacca ggagacatgg 300  
 aatgctggct tgatcccga gctcctaccg gaggaacggt agggccaagc aatgacggcg 360  
 actgtgctgg tgcagtgagc ttcatactct attttgtcta cttctttgac ttgtgagcgg 420  
 ctgccggaac ctgagcgctg tgtgctacca cgggtgcggg agacgt 466

<210> 2894  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220052g01a1

<400> 2894

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 ccgcttgtaa ctccatctcg gtgtttgatt ctctgcttct tccttcattc cccttcggaa 120  
 tcgatcgatc catcttcctc ttccaatggc aaccctacc gacaataata acaaccctgc 180  
 acaggaaaac cctaacaaaa ccctagaccc caccgaacca gatccaatcc ctgccactga 240  
 ggacgccacc gccactaagg gctccgacgc caaggacccc gccgacgccg acgccgacgc 300  
 cataacttct ccgccgcccg attccggaaa cgacgctccg ctctccgata ttcagaagaa 360  
 gatgcgccgc gccgagcgat tcggcatttc cgtccagttg tccgagaaag agaagcgcaa 420  
 ttcccagacc gaaagatttg gcaactgtctc cgcacgcan ggatcagagc catcaaaatc 480

ggaggatctg

490

<210> 2895  
<211> 514  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052g01d1  
  
<400> 2895

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cacggtcata ctattcaaaa caattttttac aagacaccaa tatgtatata tatagctgaa 120  
gacccacac cctaaactaa attactgtgt gacttgcact tcagcaattt cattaattga 180  
tcgtcgccat atccttctag gagacgtact tctcttcaca gaataaaatt ttggttcttc 240  
caactgaatt tctagattgg acaaactctaa tgtagcttt tgcttaatga aagcatccaa 300  
atcaaagtca ctttttccat ttgcatcatc atcatcctcg tcttcactag aagaatcaac 360  
tctgttttta tttgttcccg caatgttctt caaagaatcc agtggcatgt tgtacgaatt 420  
tggttccagc ttgaggattc tctttaaact gtcaatagcc gggctctaaa tacctaggaa 480  
tcccataacc catgaagcat catctacaac ttct 514

<210> 2896  
<211> 556  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220052g02a1  
  
<400> 2896

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caactaactg cgttcaaccg gacccagaaa aagacccttt ttgcccacca ccccccttca 120  
aagactacga gtccttcca cacgatgaca agacattacc ccttcgaatt agaccagctg 180  
ctcatttgggt cactgatgat tacatagcca agtacgagga agccgtgagg cgcatgcaag 240  
accttccacc tgatgatcct cgcagtttca tgcaacaggc caatgtccac cgtgcctact 300  
gcgatgggtcg cggctatact caaaagggct tcgctgacta caagcttgac gttcacggct 360  
cctggatatt ctttccttgg caccgctggt atctctatct ctatgagaaa atcttgggga 420

agatgatcgg tgacccact ttcgctcttc cgttttggaa ctgggacaat cccgncggca 480  
 tgagaatccc tcccattttc acagacaaaa gttcgcctct ctacgacgaa cacaggaata 540  
 gcgatcatgt aaatgc 556

<210> 2897  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052g02d1  
 <400> 2897

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 gacccacac cctaaactaa attactgtgt gacttgcaact tcagcaattt cattaattga 180  
 tcgtcgccat atccttctag gagacgtact tctcttcaca gaataaaatt ttgggttcttc 240  
 caactgaatt tctagattgg acaaactctaa tgtagcttt tgcttaatga aagcatccaa 300  
 atcaaagtca ctttttccat ttgcatcatc atcatcctcg tcttcactag aagaatcaac 360  
 tctgatttta tttgttcccg caatgttcct caaagaatcc agtggcatgt tgtacgaatt 420  
 tggg 424

<210> 2898  
 <211> 528  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052g03a1  
 <400> 2898

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 ccacaaggac catccttttc ttgaaagatg atggcacctt aaagccattg gccatcgaat 120  
 taagtttgcc acatcctagg ggagatgagt ttggtgccgt tagtagagtc gtcttgcccc 180  
 cagaccaagg tgctgaaagt acaatttggc taattgccaa ggcatatgtt gttgtcaatg 240  
 actcctgcta tcatcaactc atgagccact ggttaaatac tcatgctgtg attgaaccat 300  
 ttgtcatagc aacaaacagg catcttagtg tgctccaccc tatttataaa cttttgttgc 360

ctcactatcg tgacaccatg aacatcaatg gactcgcaag acaatcactc atcaatgcaa 420  
 gtggcattat tgagcaatca tttctgcctg ggccatttgc tgtggagatg tcttcggcag 480  
 tttaacaagg gtgggttttc actgatcaag cccttcctgc ggatctta 528

<210> 2899  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052g03d1  
 <400> 2899

aaagaaatca gataagatag cacaattaca tttcacaagg aaaggaactg gtcaacaaca 60  
 ttacaaatca ggcacattac attaataaga ggaaaccgaa cccaacaacc ccgcatcaaa 120  
 actctgtgtg gaccctcccc tcttccagc taaggcttag gttttcccct tacagaagca 180  
 atctaagttc tgaccatttc aggccaagta tacttaacta ctatatgaca tgtagacggt 240  
 tacaataaac aaaggctatt ttgcctgagg aaataagatc catcagtagc aacagagaat 300  
 caaaaggat acatattttg atggatcaac tgcagccatc cagcaccca agtctcagtc 360  
 caggttcagc ttgaaactac actggtcaag ccacagaaca tgctaaatta gacaaaaata 420  
 atggcgccac ttttgattaa cttatcaact a 451

<210> 2900  
 <211> 583  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052g04a1  
 <400> 2900

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 cattgtgcgc ctctccata tccatggtgc taaaatatgt atagctgatg tgcaagacaa 180  
 ccttgaaaag caggctctgtc agtctcttgg tgatgaagca aatgttgttt ttgtccattg 240  
 tgatgttaca gtagaggatg atgtttccca tgcagtggac ttcactgtgg gtaaatttgg 300  
 cacccttcac atcatagtca acaatgccgg aatttctgga tcaccttgtt ccgatatccg 360

caatgcagac ttatcagaat tcgataaggt gtttagtgta aatacgaagg gagtgttcca 420  
 cgggatgaaa cacgctgctc gaattatgat cccgaagaag aagggtcaa tcatttcttt 480  
 atgcagtgtg gcaagtgcc aaggtggctt aagaccgcat gcatacacag ggttcaagta 540  
 tgctgtattg gggcttacaa agaatgggtgc agcttaattg ggg 583

<210> 2901  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052g04d1

<400> 2901

aaagaattca tataagatag cacaattaca ttttacaagg aaaggaactg gtcaacaaca 60  
 ttacaaatca ggcacattac attaataaga ggaaaccgaa cccaacaacc tcccataaaa 120  
 actctgtgtg gacccttccc tccttcagc taaggctttg gttttccct tacagaagca 180  
 atctaagttc tgaccatttc aggccaagta tacttaacta ctatatgaca tntagacgtt 240  
 tacaataaac aaaggctatt ttgcctgagg aaataagatc catcagtcgc accatagaat 300  
 taaacgtgtt tacatatttt gatggatcaa ctgcagccat tcagcaccac aagtcttatt 360  
 ccaggttctg ctcgaaactt cactgggtcag gccacagaac atgctaaatt acacaaaaaa 420  
 taatggcgcc acttttagatt aacttatcaa ct 452

<210> 2902  
 <211> 587  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052g05a1

<400> 2902

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 gcattctgtg cctttccacg gaggccagtg gatgttccat tcggcagaaa ctacgttccc 120  
 acttgggctt ttgatcacat caaatacttc aatggaggtt ctgagattca acttcatctt 180  
 gacaagtaca ctggtactgg cttccagtcc aaagggtcat acttgtttgg tcaacttcagc 240  
 atgaacataa agatggttcc tggcgattca gctggcacag tcaactgcttt ttatttatct 300

tctcaaaatg cggagcacga tgagatagat tttgagttct tggggaacag aacaggacaa 360  
ccttacattt tgcaaacaaa tgtgttcacc ggaggcaagg gtgacagaga gcaaagaatc 420  
tttctctggt ttgatccaac aaaagcatac cacagatact ctgtgctgtg gaacatgtat 480  
caaattgtgt tcctagtgga taacatccca ataagggtgt tcaaaaacct aaagggtctt 540  
ggagtgaagt tcccctttga ccaacccatg aagggtgtaca acagctt 587

<210> 2903  
<211> 163  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052g05d1

<400> 2903

cccctatata acttgataga ttattgacca tcaaagcaa gaccgaacac gatacaggac 60  
aaatggcaat tacatatcgg ttcacccgag gctcaacgtc gctgggggtat accatgcagg 120  
gtctgtgtac actttgacag ctatatacga tgcggaagcc gaa 163

<210> 2904  
<211> 592  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052g06a1

<400> 2904

ttttctcttc tcaactgcac gcttcagggt cttctgaaaa gatgtctcgc gtgtatgttg 60  
gtaacttgga ttcacgagtc actgagagag atctcgaaga cgaattccgc gttttcggag 120  
ttattcggag tgtttggggt gcacgtagac cacctgggta tgcttttatt gactttgatg 180  
accgcagaga cgcacaggat gctatccgtg aattggatgg gttttcctca actagctagc 240  
taagtcttct ttttggccta tggggcaagc agatgctgct ctctctttct tctacttctg 300  
ccttggcctg cagtcatggt tttttcttgg ttgtgtcttc gtcaaagtct gctgctttgt 360  
acagattgac tacttctact actactgcat gttaagagaa tttagaatgt gaacacaggg 420  
gatttgcact gctatcgcga gctacacttc tgttgcatta tgggttcggt tatgagatat 480  
gtgcttctac acttaacctt tggggaccat gtgcgtgctt gccttgtgct gtatatgttc 540

cctgtggggc atttgcgtag tcccattagt tgtagcgcc catggacttc tg 592

<210> 2905  
<211> 278  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052g06d1

<400> 2905

agctgcgtag ccgtattgcc gggcgccgc gctccgtag gggcgccgc cctttttttt 60  
tttttttccc cttttttaca caataaatta atgtccatca aaagcgggac ctaataggaa 120  
actggaccat tggctcccac atatctgttc acccaagact ctaactgcgc gggagtatac 180  
ctgcaggtat gtgcacactc cgacagcctc atacgacgag gacggcgata ccaccagcac 240  
gcgctgatgc tcatagagac atagcatctt tggctatg 278

<210> 2906  
<211> 514  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220052g07a1

<400> 2906

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cgacgatggg gtccatcccc gatccaggcg agttgagcga gttgactcag ccgagcttcg 120  
acgagttcca gcgcaaacc tctctcatga ccagctgcac cctcctctgg aaggagctct 180  
ccgaccactt ctctccctc gagcaagacc tcaaccacaa atccgaagcc ctcaagcgca 240  
agattcacac cctcgacaac tccacctcgg actccctcgg cctcctcgac caccgcgaaa 300  
cctctctcga cgccactctc cagatcgccc tccgcacgct cgacacgcgc cgcaccgctg 360  
ctctctccgc cctcctccac gacgctgacg acacctnccc cgacggcgag gtcgatgaca 420  
ccgcccggct cgctctcaag ctcaagtcct tctgcctncc catggacgag ttcggcttct 480  
tcgccttcgt cagcgccaag aagaaggagc tgga 514

<210> 2907

<211> 467  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052g07d1

<400> 2907

gaataaaaca cccaaattgg tgaaatttgc aatttaggta cacaattggt caagtatcca 60  
tcagacaaga ggaggctgaa ccagccacat tattctatga gtcctattaa aattaagcac 120  
ttgactaaga taatgacaaa agaagcacag tgcatacaaa aaccaagggg tgaaatattg 180  
atcatgaaac taagcagtat gagaagggtg gtgctcttcc tggactactt catgttgctc 240  
ttgctcttgc tgtggttttt ctcttgcca ggtccaaaca atgtccttaa gcgctgggtc 300  
tatatcctgt ttaaaaagct tctgggtactc catgggtgtca ccattggact ttctaagttc 360  
caccatatgg aagggtgggtt aatctcaaaa atctcagcat caacacccaa agttcctttc 420  
ctgccttcct tggaaccttc caatttgagc aagccttcat cttttct 467

<210> 2908  
<211> 494  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052g08a1

<400> 2908

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ttccccatcc ttggctggca aggccgtgaa gctgggcca tcagcccccg aagtcgggag 120  
ggtcagcatg aggaagaccg tcaccaagca ggcctcctcc ggaagcccat ggtacggccc 180  
agaccgctc aagtacttgg gccattctc tggcgagccc ccgtcctacc tactggcga 240  
gttcccaggt gactacgggt gggacactgc tgggctttcg gccgaccag aaaccttcgc 300  
cagaaaccgt gagctcgaag tgatccactc cagggtggcc atgctcgggg ccttgggctg 360  
cgtcttcccc gaactgttgt cccgcaacgg ggtcaagttt ggagaagctg tgtggttcaa 420  
ggccgggtcc cagatcttca gcgagggtgg gctggactac ttgggcaacc caagccttgt 480  
ccacgcccag agca 494

<210> 2909

<211> 510  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052g08d1

<400> 2909

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tatcagtcac tttatgtgtt aatattgtag ctgccatgaa acttgcagaa aaagttatca 120  
cgaaaacaaa ctggttgacac gataagtagc tctccaaatt acacagacaa ataaacctaa 180  
caattgtccc acatgtcata ctcatagtcc aaaagcacat attcctcaag atgaattgtg 240  
aaaataccag tttgagcttg caagaaacat tgtatgcac tgatgagaat tcaaccaag 300  
ttcaatcttc tatttgataa aatgaccatg agcatgatag agctgtgata aggagcagct 360  
ttcacttggc attagttact atcagcaaaa ctgaaactca cctgcaaggc tcatgtagag 420  
gatgaatcgg aggcaacggc ctcttgtctt ggccttctgc gtcaggggga gggccatctc 480  
tccgtctctc ataccttcta ctctcattct 510

<210> 2910  
<211> 572  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220052g09a1

<400> 2910

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caagtccatt tttttcgctg attccttcaa gtctaactgc ctcacagcaa aattctcagg 180  
tgggtttgct tttaagagaa aagagcgtag agcagcatct ggaggacggg tttattgctc 240  
agtgcaggca acaccaccac caccagcctg gccgggacga gcggttccgg aacaaggctc 300  
caagacttgg gatggaccaa aaccatttcc aattgtgggg agtactgggt caattggaac 360  
tcagacacta gatattgtgg cagagaatcc agataagttt aaagtgtgtg cacttgcagc 420  
tggttcaaat gttactcttc ttgcagacca ggtaaaaaga tttaagcctc aacttgttgc 480  
tgttagaat gagttcctaa ttgctgaact tgaagaggcc tngcatgatg tcgaagaana 540

acctgagatc atccctggag agcanggaat ca

572

<210> 2911  
<211> 578  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052g09d1  
  
<400> 2911

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tttttttttt tttttatttt tttgtagttg tttttgcaac tttttatcga aagggcattc 120  
ttacctaat caaaggcaaa acctaaagtt aacactaaga aaaataaaaag catttttatt 180  
aaaccaaata taccgtagc gtacgcactt acaacataag ggtatactaa tagtatttct 240  
aaattaaatc ataagaataa taaagcaa atgaaaaatg atatactgaa ttcacttcta 300  
ttttgtccta aaaatgaatg atatccacac tcgaaagcac tgtctttttc ttcgtatggg 360  
ttatgtgggg caaagattaa atttacagct aataatatta ttgctaatat aggtatagaa 420  
tgtagaaaaa atgtttgact cgcatgtaa gctttaaata atataagact aagaatacta 480  
actatattaa atcattctcc tggtatatat ataaataatc taagtaaaag agtttaaacy 540  
gaaatagtc tactgaccgc actgtatatt gcaatatt 578

<210> 2912  
<211> 550  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052g10a1  
  
<400> 2912

gttgatcaa gaagccggcc acagttgagg aggcctactt ggattattgt tctgctttcc 60  
atagtgtgtg tgtttctgat tgctgcctat gtttaccccc cgcctagccc ttcttcgtgc 120  
tccgtctttt cctcacatgg ttgcggtagt agtgcttttg aactgcctcc agctgctcat 180  
acccgcgaat tgactgatgc ggagggtcag tctcggggtg tcattaatga gatcctgaac 240  
tattatcctg tgcaaacc aa gaaacctaaa gttgcttttt tgtttttgac tccgggctcg 300  
ttgcctttcg agaagctctg gcacatgttc tttcagggtc atgagggaaa attctctgtt 360

tatgtacatt catcaaagga aaaaccaata catgtcagcc ctttctttgt tggccgagac 420  
 attcacagtg aaccggtagg ctggggaaaa atttctatgg ctgaggcaga acggagactc 480  
 tcggcacatg cactttttaga ccctgataac caacattttg tcttattggc tgaaagtcgt 540  
 atacctgtgc 550

<210> 2913  
 <211> 74  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220052g10d1  
 <400> 2913

gtggcaggaa aaataccatc acagggccat ccaaactaca atttgcaaac aagcatttac 60  
 aaaatggtgg acac 74

<210> 2914  
 <211> 512  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220052g11a1  
 <400> 2914

atccccctccc actctttctc tctcttcact ttccaacggt ggcttttctc cgcgttttcc 60  
 aattcccccc aaatctcacg cctaggggtt ctatcgcaaa cctccctac ctccaaccag 120  
 gtcgctgca aagggatttc gaagcttcgg aagaaaaaaa tgaaacctgt tttctgtgga 180  
 aacctggatt tcgacgcgcg tcaatctgac gtggagaggg tcttcagaag atacggcaaa 240  
 gttgatagag ttgacatgaa atccgggttt gcttttgtct acatggaaga tgaacgtgat 300  
 gctgagtatg caatcagaag gcttgataga acagaatttg gtagaaaggg tcgccggatt 360  
 cgtgttgagt ggactaagca agaacgtgac agtagatgat caggtggtga ttccagaaaa 420  
 tcttcattcta attcaagacc atccaaaact gtgtctgtta taaattttga tcctgggtcat 480  
 gccaggacac gggatctgga gagacatttt ga 512

<210> 2915  
 <211> 447

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220052g11d1  
 <400> 2915

agcaaagaca atgctatctt ataactgata tttgaagcgg gagcatcaat acactacaat 60  
 atgtaactat gaactatcaa tatatgatcg ttattatgtc tgtgatacac acaattaagg 120  
 ccataatata cttatgtgat ttacaacaac ttctagctta ttctatacat catgccaacc 180  
 caactaggag caattttcat catacaatta cacttatctt taatcatcat tcatcaatac 240  
 tggcatcagc aatacgtctt aaactctgaa gcatgacaag gtggtagtca ccagggacca 300  
 tattgttatg caatctatgc cacaattgga taagatgcac aagttgcaac accacacatg 360  
 ttcttaccba attccatctt gcagtagcca ttttcacccc agctttctac ccatgaattg 420  
 tttatgagcc aatatgggac accatctt 447

<210> 2916  
 <211> 532  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220052g12a1  
 <400> 2916

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 ggaagggtcaa agcaatgtca ctttgttggt ttcttcctca gccaccatgg aaagtgtgtg 180  
 cctgaatagc tcaaaactga aagagcgcaa ctacatgggg ttatctgatt gttcatctgt 240  
 ggacagctcc ggcgcgtcct tctcagatga gactaagagc aatctgaacc ttaaggctac 300  
 tgagctcaga ctggggctta cgggggtcgca atctcccgaa cgagattcag atctttgctt 360  
 gagaagttcg attcagtttg atgaaaagcc actgtttgct ttgcatcctg caactgatga 420  
 acaccattcc tcatcaaagc ctgctgtttt gggaaacaca agaggggttct caaatgtcat 480  
 gagtggattc gccgatgaga aattgcttgt tagttccgaa gtccacacaa ta 532

<210> 2917  
 <211> 429

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052g12d1  
 <400> 2917

ggagcaagga gtactaaaat aataatagtg tcaacaaaca tcatcaatta taaagtaata 60  
 agagattgaa gaaaacaatg gtaataaatt taatttttagc ccccgacag ggtccaaaaa 120  
 agacaataaa tgatacaata atactatgta acagcagcaa tgaagcctca gcctcttctc 180  
 tagaagaaca aaacaagggt agcccagctc aaggctaagc atccaatgac cttcttcaag 240  
 cacctgatgg tttcagctcc actctcgtcc tcagatacag ctggaccagg agacatggaa 300  
 tcctggcttg atcccgagc tcctaccgga ggagcgggag ggccaagcaa tgacggcgac 360  
 ggtgctggtg cagtgtgctt cttactcttc tttgtcttct tctttgactt gggagcgggt 420  
 gccggaacc 429

<210> 2918  
 <211> 561  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052h01a1  
 <400> 2918

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 ttcatatggg tcagcaccat gctgccaaagt tgtgaactca aagtggaaat tagttgaaaa 120  
 gagtttgagt tcacgtcaat caagagtttc ctctatagga aaacttgagg tttattacac 180  
 aggtactatt tctgcatgtg cgccctgtgag attttatgag atgggtacta ggggtgcagct 240  
 aagaagctca aaaagattca atttcaagggt ttgtagtgga agttatgatg atggttatgt 300  
 gattggtgaa gaggaagcaa gggatatattc aggggttagag gagcctgtaa caaccaagggt 360  
 tctgattcca ggtctgcctg atgattcaaa aggtgaatct ggtgctccaa taagtagttg 420  
 tttctgggga tgaaaacct aactcaatgt gcactatgag aaggctcggg gcgaaaacgt 480  
 caatgatttg cctcgtgttc tcttttacca ggttttggcg ttgctctttc catatgagaa 540  
 agcacttaag gatttgggcg t 561

<210> 2919  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220052h01d1

<400> 2919

cattaaaaaa atatttctta taatgccgtg ttcaactcaa ggcaattaca cctctcatgc 60  
 cacggtcata ctattcaaaa caatttttac aagacaccaa tatgtatata tatagctgaa 120  
 gacccacac cctaaactaa attactgtgt gacttgcact tcagcaattt cattaattga 180  
 tcgtcgccat atccttctag gagacgtact tctcttcaca gaataaaatt ttggttcttc 240  
 caactgaatt tctagattgg acaaactctaa tgtagcttt tgcttaatga aagcatccaa 300  
 atcaaagtca ctttttccat ttgcatcatc atcatcctcg tcttcactag aagaatcaac 360  
 tctgttttta tttgttcccg caatgttcct caaagaatcc agtggcatgt tgtacgaatt 420  
 tgggttcagc ttgaggattc tcttaaactg tcatagccgg gtctaaatac ctaggaatcc 480  
 atacccatga agcat 495

<210> 2920  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220052h02a1

<400> 2920

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 gtgttgtttt gtttgttgtt gctaatacaa gtggcagttt ctgaaatcat ttttgaagag 120  
 cgatttgatg atggatggcg aagtaggtgg gtgaaatatg actggaaaag cagtgagggc 180  
 aaagcaggtt cattcaagca cacagctgga aaatgggctg gtgatccaga tgacaaaggt 240  
 attcaaacat ccagtgatgc caaacacttt gccatctctg caaaaatacc agaattcaca 300  
 aacaagaaca gaacattggc ccttcagtat tctgtaaaat ttgagcaaga gattgaatgt 360  
 ggtggagggt acatcaagct tctctctgga tttgttaatc aaaagaagtt tgggtgggat 420  
 acaccatata ttttaatggt tggaccagat ttatgtggca cggatacaaa gaagcttcat 480

gtgatacttt nctaccacgg tcaaaattac cccataaaga aagacctgca atgtgaaact 540  
gacagggttaa ctcatttcta caca 564

<210> 2921  
<211> 408  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052h02d1  
  
<400> 2921

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tgacgcctct catgccacgg tcatactatt cagaacaagg ttaccgcac accataatgt 120  
gtatatatag ctgtagaccc ctgcacctaa atctaaagtt actgcgggac tggcacttta 180  
ccaattgaat taattgatcg tcgcatatc cttttcggcg acgtacttca cttcgcagaa 240  
tgaaatgctg gatcttccaa ctgaatctgt agaacggaca tatctaaggc cagctttcgc 300  
ttgatgaacg tatcccaatc gaagatactg taggcattgt gattagcctc atgctggacg 360  
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<210> 2922  
<211> 549  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052h03a1  
  
<400> 2922

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acctgaagga acagcacatg atcaagttat tcaggaatgt gcaaaagaga ctggtgtgcc 180  
tcaagttcta tgtgcatcat ctgataaaca gagtgatggt gttacagttt ctttagataa 240  
ggatggcacg gatactgagc atgagaatcc tgacgagtct tcctcagaaa aattaggagg 300  
tggaagcctt ttccaaactg acaaggacag aaatcaagtt gaggcttgtg ctaatcagaa 360  
cacccaagtt tctgaggtga taaatggtgg tccgaataat acattgacta ctgctgaaga 420  
tctaaatgag aataatgcat ctaaagatga aagaagggtca actcctgagg taaattcagt 480

gattgatttg tccaaaaagg atgttcgaga tgatgttggc aagatgcaac cggatcctgt 540  
tactgaaac 549

<210> 2923  
<211> 295  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052h04a1  
  
<400> 2923

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gctaggcagc aatgcatatg agagaataag gactttgaga aactcttctg gaaatggaat 120  
ttcttttgaa ctgtgattgc aatcatagaa gggcaccatt gagcttaaata tgctgattat 180  
gtatggcggg gattgcaaat atttctttca tggaggggaa tatttagtgt caagcattga 240  
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<210> 2924  
<211> 81  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052h04d1  
  
<400> 2924

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tataaaccta aactaccaac c 81

<210> 2925  
<211> 602  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220052h05a1  
  
<400> 2925

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tgccaatggg ggctcctact acgcatggac cccctccgac cttcccatgc tccaccaagg 120  
caacattggg gccgctaagc cttgctctta accaaaaacg cctttgctct tctcgttac 180

tctgactctt ccaaagtcgc ttatgttctt caaggtagtg gaggggctgg aatagtgtcg 240  
cctgaatcag aagagaaggt tgatgcaata aagaagggcg atgccttggc actccccctt 300  
ggtgttgtga cctgggtgga taacaaggaa gaaactgagc tgggtgatct gttccttggg 360  
gacactttca aggtcacao ggctggagaa ttcactgact ttattctgac tggttccaat 420  
ggaatcttca ctgggctttt tcaccgagtt atgtgggcaa gggcttgggg actttggaag 480  
agagtcattg caagaccctt tgttggaata ctaaccagcc caagggattg tgcagctgga 540  
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tg 602

<210> 2926  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220052h05d1  
<400> 2926

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tgaatttgca ttgtacatta aaaaaaaaaa aaaaaaacta tcagaaagga gaaagggaga 120  
aagaaagggg aaggggtcaat cgaagtcgca caacgaagtg ccttgttcct tgccagtctt 180  
tagtttcgtt gccaaaggagg gaaggcgta tgctttatat gttgtgaatg ccaggcagca 240  
gaacgataag cctttgacct aatacaaata atgaatgcct ccattaagct cactgaccct 300  
tgataactcg ggaatgttaa ttctttccca cccttattgg gggggagttc tgggcttaaa 360  
aggtatgttg ccaaaaccac atttcctttt ttttttaaaa agaattaaat tttttg 416

<210> 2927  
<211> 585  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220052h06a1  
<400> 2927

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agttggactg atctgctaca ttcttccacc aagcttctcg aacaagctgc tccttctgct 120

cagttccctc cacttcagag gaacttagat caactggaag cattatccaa gaagcttaaa 180  
 tccaagacag taaggactga agcaccttct caatctattg ctgcaacaag gtccttgct 240  
 cgtgagggga taaatgcaga gcagcttgca agggatctga agtcatttga actgaagaca 300  
 acttttgagg atgtttttcc tgttgaggca acaagcgttg aagagtatct gcagcaggtt 360  
 catgaaatgg cgatgggtctc tgctgtccaa gaagctcaga aggataatct caggagtttc 420  
 aatgattata tgatgaaagt attagaggag gatcggcaaa aagaaaagcg tgattttctt 480  
 cagagttaa gtcgaatttc aacattacct acgacaaaca ttgctgctaa cagcaatgtg 540  
 ggtacccta ccggtcaaat tgtgtctgga tcttctactt caca 585

<210> 2928  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220052h06d1  
 <400> 2928

agagtaatca tgaacgatta aaattaacta ttaaggaggg tcataaggag aatagataat 60  
 gaagcataca aagtatcatc tcacatacac atctcgtctc atcataaaag gatcgtgatt 120  
 tttagctcca gttcatatct caggctctggg ctcataattt ccgcagctca agccaccaag 180  
 ggcgagtga agacaaactt cttccacatt gcggatgctt cgtgcgccaa agaaagtga 240  
 caccgcttat gccttcttcc ccttgacaac aatcttgccg tgctcgcaact tgagactgat 300  
 ctctctgccg aagggtgtagt agcegtactc gtgctctggc tctggctctg gtttgggcgt 360  
 aggcttgggc tcgggctggt gctcgacggg tgggggtggg tgaggagcac gggtaggctt 420  
 gtgctccgtt ggtggaagtg ggtgtggcac acgagtgggc ttgtgctctg tggtggt 477

<210> 2929  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220052h07a1  
 <400> 2929

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cagagactct gaatgaatcg gttggagaga taagtcataa gagatccttg acagaatccc 120  
 ttgttcattc cgaaaccgct acaaaatcat ggggtggcaac ggcaaacaca ggtggaaatt 180  
 cagcttccac cggttcttca cccatcctcc caaggaattc acctgcccc tttccggctc 240  
 actaatgtcc gaccctgtcg tcgtagcttc gggccaaacc ttcgaacgac tcgccgttca 300  
 actctgcaga gacctcaact tctcccccaa gctagacgac ggcacccgac ccgacttctg 360  
 aaccctaata cccaacctcg ccatcaaaac gacaatcctt cactgggtgcg acaacgcccg 420  
 caccacaacac ccgcgccttc ccgattacgc ctccctccag cgctctgtct tagagcaaaa 480  
 agaacatgac cgcggttaggg ttttcgaaat ggag 514

<210> 2930  
 <211> 552  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052h07d1  
 <400> 2930

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 ggtatttgtg ataaattttt cgtttattct tttgaattaa tgaaagacct atggtttgat 120  
 acataaaaaa ttgtttattg ttttttctag acaggcgaac tggttcgata acaaattttt 180  
 cttttttcat aaatttggtta tttttctttt tccttaagcc tagaagaatt aaattcttct 240  
 gattttgaat catcataata tctagacctt gttctcctct ttgaatagag gctattgtaa 300  
 tttctcttaa attttttaat ctaatcagga gacaatatac tttgacattg ttaaattttc 360  
 tttgacctaa gaaattattc caatttaaata gtaaaatcaa aaaatttctt aataagaaat 420  
 taagttctgc ctccatctat gtcttgctct tctttttctt tataacctta ctattctttt 480  
 actgtctgat cctacataat cggtttccat atctttttct tggcttgaga tagatgattc 540  
 aagattccgt tg 552

<210> 2931  
 <211> 567  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052h08a1

<400> 2931

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tcgcggtcgt ttccggcacca tcttccgctg cttccacca ctctccaacg aaccttacgc 120  
ctgcaaaactc atcgacaaat ccttctcca tgactccacc gaccgcgact gcctccagaa 180  
cgaacccaaa ttcattgaccc tcttttcacc tcacccaaac atccttcaaa tcttccatgt 240  
tttcgaggac gaccaatata tctccatagt aatggatctc tgccaacccc acacgctttt 300  
cgaccgcgatg gtcgatggtc ccatccagga gtccaagcc gccgccctca tgaagaacct 360  
tctggaagct gtcgcgcact gccaccgcct cggcgtggcc caccgcgaca ttaaaccgga 420  
caatattctg ttccattcgg cggacaatct taaactggcg gacttcggtt tcgcggagtg 480  
gtttggggat gggaggagca tgagccgcgt ggtggggacg ccgtattacg tggcgcccga 540  
ggttctgttg gggagggagt acgatga 567

<210> 2932

<211> 559

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220052h08d1

<400> 2932

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tttattgcat aaaaagatac gtgcgtgttt ggaaaaaat tcaatttttg ttaagttgaa 120  
gggaaatata caaatacatg tcttattctt ttaaataatc catatttgta gcaatgaaat 180  
aaattcctcc ccaaataaaa aaatgattgg gattacaaat atttatgata catattcact 240  
ttaaagggcc agaaatgcct tgcttacgta tcattaaaaa gtgcattaac ctaaataccg 300  
ccgtaagaag aggtaataca aaagtatgca aactattaaa acgagttaag gtagattgtc 360  
ccacactgga acttccgcgt aataacttta ccaaagacga tcctattaca ggaatagcgt 420  
cgggtacgcc tgttacaatt ttgactgccc aataaccaat ttgatcccaa ggtaaggaat 480  
aaccggtttc accaaaagat gcagtcaata cagccaaaac ttcacccgga acccaagtta 540  
attcgcgagg ttttttaaa 559

<210> 2933

<211> 422  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220052h09d1

<400> 2933

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ccaaccgagc ctcacagggc ttcccaaaat ggggtgggcaa aactcaaccc cttttcatct 120  
tgatggcctg aagccccagt atttgccacc caatgatcgc tagactgtgg gggtttattg 180  
tcaagggact gctatcttgc ttagtatcaa tccaatctc tggcatccat tatcccttga 240  
aatgaccgag ccttcggcag gagtcttcga ggataacccg gacctcacat tgaggctggg 300  
acagggggctc ctgtcggggc gcttacttga actgagctcc taacaatgag cctgcttact 360  
ggcaccgggt acagctcgca ttgagaacgg accggcccct tttttgaccg acaagtcccc 420  
tt 422

<210> 2934  
<211> 530  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220052h10a1

<400> 2934

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tgctaggcgc ttagggcagc aatcgctgag gccatcgacg tcgctcaagt ccacttatcc 120  
aatttccgat caccattatg gaatggatca cgagcggtac gtttctaccc tcgccaccaa 180  
gggagttggg cacctcgttc gtaagggcac tgggtggacga tcctccgtca gtggcattat 240  
tgctacagta tttggggcaa ctggattctt aggtcgttat gttgtccaac aacttgctaa 300  
aatgggatct caagtcctag ttcttttccg aggctctgaa gataatcccc gtcattctaa 360  
attgatgggg gatttgggac agattgtacc catgaaatac aatccaaggg atgaaagtgc 420  
agtaaaagct gtgatggcta aggccaatgt tgttatcaac cttattggaa gggattatga 480  
gacaagaaac tacagctttg aagaagtgca ctatcacatg gctgagcaac 530

<210> 2935

<211> 478  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052h10d1

<400> 2935

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gaatctttat tttccttttt attattagtt attagaatat tttttattat tagaaagaat 120  
aaatagaatt ggcaaaaata aaaaaaaaaat tcaataaaat caaaattatc gcgggcgaat 180  
atttactctt ttattatcaa tcaaattcag atgtaatgta gggcacaact cctaaaaaaa 240  
ggattgcttt ttggtttctt cgcgccatccc acctaatagaa tcattaagat ttgtttttta 300  
taaaatctta agtatttgca ggtttcgtcg ttcccatcac ttctcgatta atggtaggt 360  
ctgaattcga caatggagcc tttctcatat cttaaaatta ataatctttt tttttttcga 420  
atattgattt gggttttcgt gaatcaatat tctcagtttt tatcgattca gagctctt 478

<210> 2936  
<211> 515  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220052h11a1

<400> 2936

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caggaacttt agctgaatcc ggcacaacta aaaatgtatc tagctggagt caggtttcag 120  
aaggaataa tgggtatcca gagcatatga ttttgatcc tcagtatcct gggttggtatt 180  
atgacacaat tgcccaagaa tggcgttcat tggaaactta caattcaacc atccagtctt 240  
ctagtcttgg acttgaaaat gggcatgctt ctgccaatc tttctgccc aatgataata 300  
gtttgtatag cgaatacagc caaactgata attatggaat acagggaatt gatagtcagc 360  
ctgtagatgg cagctggagt gggttgatg gcactaacca tcagcagggt tttgacatgt 420  
acacaactgg gtctgtcact actagagggg ataataaac ttcgggtggc aaccaacaca 480  
ttaatcattc ttatggttca agtatttctg caaac 515

<210> 2937

<211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052h11d1  
 <400> 2937

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 aattttccta cgttttctat attctttaag aaaaaaaca atgggagccc aattcataac 120  
 ctgaatctct gattttacat tgaaaattat tacgattaca caatagacac atccaaaagt 180  
 agaaactgat caatcctttg gtgaggggat tgaaatgaaa attacataga catattaagc 240  
 agtgggaaga accttattaa caatctcctg gctaagagct gcaatctggg aatcaaggga 300  
 cttgatgggt tcttcctttt gattctccaa gctagacaga gccttctgca gctcagcctc 360  
 gactttcttc ctcccctcag caatct 386

<210> 2938  
 <211> 509  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220052h12a1  
 <400> 2938

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 tcaataagac attttgaggt caagcagatg ataaaaaaaa tatctaggca tgcctcatct 120  
 tcaaaagtta caaatttaaa tgaagtgctt atatctctta ttagtactat tgtatgtaga 180  
 attgttttgg ggagaaggta tgaagaggag ggatctgaag gtagcagatt ccataagttg 240  
 ttcaatgagt gtgaagctat gttgggtaac ttctttgttt cagattatat tcctttcatg 300  
 gggttgattg ataaactcag gggactggat gcacgtcttg aacgcaattt caaggagatg 360  
 gataagttct accaagaagc cattgatgaa cacatgaatt ctaagaaaaa gactccagag 420  
 gaagaggatt tagttgatgt cttacttcaa ctgaaagaga acaacacgtn tcccatagat 480  
 ctcaccaatg taacatcaaa gcagtgtctc 509

<210> 2939  
 <211> 477

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220052h12d1  
 <400> 2939

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 aatataatat ttttaatttat tggtagaatt taaaactaca acatatataa ttaaattaga 120  
 agtacacttt aaaataaatg atatgatttt taatttttta atccatattc ttaaaataat 180  
 aaagaagatg aaggtgaata gatcttaaac aataggtgat ggcgacgctg ggtggtgctg 240  
 aacacacgcg gtgatggtag tggtgaatgc atgacatggt tgaggaggca gagaaagagt 300  
 tgggcggaca tgaagaagaa gcataagcgg aagtgaacg tagaaagaaa atcgtatctc 360  
 tcttcttaag tttttagttg acaaatatca tacacttggg ttggaatcac tcaaacctaa 420  
 cttcccaaaa aaaaaaaaaac attataattt cataattgaa aatcagacga aaagaat 477

<210> 2940  
 <211> 91  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053a01a1  
 <400> 2940

ctctagccga ttttgctcgt ttttgagctc gtttttttca gcgcgcggcgt tatcttggcc 60  
 gttctaccaa tcctaaattt gattacttgg g 91

<210> 2941  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053a01d1  
 <400> 2941

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 tgaattggcc ccgggcaaaa atgggggccc ccctgggggg acccactacc ggacagtttt 120  
 gagcaagggc ccgggatcc ctggggggga aaatcgaaca aacgggaggg gaaagaacct 180  
 ctatggggta aaaggccaac aggaacaact ccgggaaagg cccattggcc ccaactccaaa 240

aatacggggg aaaaatcggg gatggccccc ccaattttaa accccggggc caaaagggga 300  
 tggcccaagt taaacggtgt acccaaaagg ttttaaaagc ccaaagccgg ggtattgccc 360  
 ggacggggca aatttttaaa cgccaaaaga aaccaaaccg ggccaacccc gaacgggaaa 420  
 acaaa 425

<210> 2942  
 <211> 542  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053a02a1

<400> 2942

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 taggcttagt cttaaaatct tgcgaaagta atatgcaggt ggtcagaaaa gcagtcactg 180  
 ctggcttttt gctaattcgt gccatctaga ggcatacagg cataacggga tgtataagac 240  
 gttaagagga taacaggaag tttatattca tccattgtca gtgccattca gagtaaactc 300  
 aaagtgggtt atttacactt ctcttgatc aactgatcga caatacatgc gtaatgtcat 360  
 aaccgtagat acctcatggc tattggaagc tgctcctcac ttctatcagc tacagcaatc 420  
 taatcatctt cttegtgat tcgccgtaag ctaattaact gtgtctgatg cgaagcaaag 480  
 aaattgttta tatgtcaaat ttcaggtcaa gtagaacatg ataaccagtg gtgttaggac 540  
 tt 542

<210> 2943  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053a02d1

<400> 2943

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 caaccacat accatcttca tctattaaaa atatacaata ctgctatata ctaataagct 180

acagttaaaa ataaagaata cttacagtaa tgtacctata ctatcatttc tttgtactta 240  
aattatatga tttgtatata tcaagcggat ataccattat acccccccgtg tcaaaattct 300  
gcttcgcatg aagggtttctt aagtttctag gctatgctca gaataatgaa tgattggaac 360  
atgaatcagt tttgctcaga aaaactttga ggcttactgc tggcaaacgc caaccatatg 420  
atgggtaccag tcacattgaa gaagatcgat ggtgcaaata gtgatatact ccatgaatg 479

<210> 2944  
<211> 506  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220053a03a1

<400> 2944

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gtccttagtt ctgtttctct ttcttctctc tgtgctttca accaagttct caaatcactc 180  
ttcttcttca cccttctgat ctgctaattc tcaaggtatt caaaattggg tggttttcga 240  
ttgaactgtg atgtccaagc cactgctagg catagcggaa gaggaaggtc aaagcaatgt 300  
cactttgctg gtttcttctt cagccaccat ggaaagtgtg tgcttgaata gctcaaaact 360  
gaaagagcgc aactacatgg gggttatctga ttgttcatct gtggacagct tcgcgccgct 420  
cttctcagat gagactaaga gcaatctgaa cctcaaggct actgagctca gactggggct 480  
tccggagtcg caatctcccg aacgag 506

<210> 2945  
<211> 531  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220053a03d1

<400> 2945

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aatatgtttt gaggggttaa aaaaaaaca aaaatacccg aatcatatat tatatggctg 120

ggttcaatcc aaaatttcag acattttaat acaatcttaa gaacctggca taccttaacc 180  
 cagctacaaa tttaaaaata atactacagt ttaggggaga gcaataaaat ccacccact 240  
 tcaacacaca gttctgctaa taagccccgt taggaagcac cttgaattgc agcagcaggt 300  
 tgcattggcta tatcctgatt ctgtctcaca gcaaattccat ggccaccata accctgatga 360  
 ccaccataat ggccctccatt ggaatcagat ctccaatgct tatttcctgg actgcgaccc 420  
 caagaaagac ccactgtctg cttncatta ctgtccatt caatccctga atgcttntc 480  
 agcattcttt ctgtcagcaa attgaacaaa ttcacaccct ttaccaactg g 531

<210> 2946  
 <211> 576  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053a04a1

<400> 2946

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 gtgattctgc tgtggatgta gggaacaatg actatcttcc cacccttttc aaggctgatt 180  
 accctcctta tgggagggac tttgttaacc accaacctac tgggaggttt tgcaatggca 240  
 aattagctac tgatttctact gctgacacat tgggtttcaa gacctatgct ccagcatatc 300  
 ttagcccaca tgcattcaagg aaaaacctac ttattggagc aaactttgct tcagctgcat 360  
 ctggttatga tgaaaatgct gctactttga atcacgcat tccgttgtcc caacagctga 420  
 gttatttcaa ggaataccaa ggcaagctgg ccaaggtagc tggcagtaaa aaagcagcct 480  
 caatcatcaa tgatgcgttg tatgtgctca atgctggaag cagtgaactt gtgcaaatta 540  
 ttatgtaatt cttggatcac aaattttcac ttctga 576

<210> 2947  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053a04d1

<400> 2947

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 cgtagctagc tagctgtccc atgtacactt ttatttataaa attgaaacat aaaaaaatct 180  
 tgaaacgaag cagctaatag aatccattat ttatatataa caataaacta ctatatacac 240  
 atacaatgta ttctagttaa gtccctctaa acacgagcaa gttattctgg gtgtcgtagc 300  
 ccaacttctt caaattcggc tggactgcaa atcgaatcat aggtggcggg ccacaagtca 360  
 atgccaaagg atcaggagat gcatttgga tatgctccgt caggatactt tcagtgatga 420  
 atcccacact gtattccac ccttctctta tgc 453

<210> 2948  
 <211> 508  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053a06a1  
 <400> 2948

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 cccgccgccg ccgcagacga cctccccctc cctgccggat ctactcctca cggccctctc 180  
 cgtctgcttc ctagtctcgt cctcgaagcc ccacatcggc ggctccaccc gctgcccctt 240  
 cccgcgtcgc ttctcaaaa tccccgccat gtccctcaca aacacaacaa cgtcgaaatc 300  
 ctcgaaaaac aacaatctca acaacaccct ccttcctccg cgcggtcaca gcttcgcgtc 360  
 cccgcagtcg ctctcggagt ggctgaagcc gcggctccct tccgagtcgt tcgcctcgtg 420  
 gggcgtgaag ccgggcacca agaactgtga caacctctgg ctcgagctct cccaggggga 480  
 aaccttcctc gctgactcca ccccttcg 508

<210> 2949  
 <211> 590  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053a06d1  
 <400> 2949

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 cctctcctgt acaattccat ccaccttcag tttctgcagg taaaatacaa gcaattcttc 180  
 cctcaccaaa agagaaactc aaatgacaat tttgtattga agccagctat acaactcgaa 240  
 cccatgttcc accacacatt ggacatccat aagcccagcg gctgatccac caaatctccc 300  
 ggatcattttg actgggaaga ttggtggaag ctggtgagggc aaaagcacia gtctgccgca 360  
 gacatcttat acacttgtac cagatccctt caaggccagt tttccacaat gcagtaacaa 420  
 catctcttcg agatcccatt ataccaaggt atgctcccag gccacagaa gtgttcaacc 480  
 caaaagctgc atctcgttca gacatcctgc gcttccttgg ccataagcca ttggctccat 540  
 agtagacatc acaattttcc aatgagctgg aatcaagtgg atttaaacta 590

<210> 2950  
 <211> 486  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053a07a1  
 <400> 2950

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 catggcaagg cacccaactc caatcttgaa tcactctgca ctctgcactc tgcacaatgc 120  
 ttttcctctt cgtccctgct ctcaacctta aaccataac acccaatgac ctgtttgttt 180  
 gataagccta ttcctcacct caccgtcgct acttcgagaa acccatctcc gccgacctca 240  
 actcatcttc cttcaagaaa cctgagcagc ctctgctgcc gcaacatcaa gtctaccagc 300  
 ccttcgcgcc tccccgtct tccctaccct cgcaattcgg caccctcgac atcgccggcc 360  
 gaatcgacat gctcgccaac cgctcgggtc tttggtacga gtacgcgccc ttaatcaatt 420  
 ccctaaccg cgaaggcttc tcctctccga caatcgaaga aaccaccggc atattcggcg 480  
 tcgagc 486

<210> 2951  
 <211> 539  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053a07d1

<400> 2951

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tgtctaattt taccattgat ttaaaaacaa aatttgcacc atcttataag aaatatggaa 180  
cgctgtcctt gggccctctc atctgattgt tctcctctgt ttcggtgaaa aatttaactt 240  
ctctttccat attttcattg aaactcagaa tagaagctac atttccacat cggtaacagt 300  
aattaggtgc ataccatata gttacaaggc ctttatcttg gaacatatac ttaaggcctt 360  
cctgaacgag ttggtgagct cgacaaacaa gatcaagggtt atttatgtga ttgaactccg 420  
aactgaccct ggatccaaaa agccaacctg ctccacgggg actgactgcc atgtttcatt 480  
atcttcagga tcaactccaca ttagatcaca gaaaggaccc tcatgaggaa tttcacagt 539

<210> 2952

<211> 443

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053a08a1

<400> 2952

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gggtgtgccc actgtgtctg tgctattgaa cctcaacttt .gtgctacgat ctagggtta 180  
tgtgtcggg aaattgggta agcctaaata ctacaaaacc attcaatgtt ccataacttt 240  
ggatccaaaa aagctcaatg ctgcgatttc cctgaagaaa tcttgacat atgattgata 300  
catgtgacgg agagcaagtg ggaattattt gaaaaataat aataataata aaaatattgt 360  
tttatgatta atgtgttctt ttgatgtgag gaaagaaatg gtccagccag agagcagtgt 420  
gccaaggacg cgtttttggg act 443

<210> 2953

<211> 510

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053a08d1

<400> 2953

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tttttttttt tttttttttt tttttttttt tttttttttt gggggtttgg ggtttttttt 120  
atttttttta tttctgattt ttacaccaa tctttgggga gaactgtagg aacaatcata 180  
acaaaacaaa aggaaaaagc cccacccgaa caaatgaggg ggcggccggc caccaacaag 240  
ggggggggga ggggcccgtt taaaaaaaag gggcgagacc cccccccctg aggggttctt 300  
ctggcccccc caaacaaggg ggggccccaa aaggggcccc cccccacccc ccaccacggt 360  
aaaggggggg gggggccccc cccccccccc ccaagaagaa tgttccccgg cggggggggg 420  
ggcgggccca aaaaaggggg ggggaaaccc cccccaaaaa aagaggcccg gggggactaa 480  
caaaaccacc cccggaaaaa aaaagggggg 510

<210> 2954

<211> 588

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053a09a1

<400> 2954

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ggaaaagaag ccatgcctct ttcaccatgt ttgcaatgct tgttgagtg atctctcaga 120  
gccttgatcat tctgttagta tccaccactg ttgaagatca gaagaactac tacaccccag 180  
atccacatgc tggaagtccc cctcaggct cacacagtag tactcctcca tctcatggcc 240  
atggaagctc tccaccctca catcatcaca gtagtccaag tactccatca acaccctcag 300  
gtggaaactg tggatcatca cctccacaac atcatgatcc aacaacaccc tcaactccat 360  
caacaccatc aaacccttcc tcagggtgat actatggagg tagccccca acacctgtca 420  
ctgtgagccc accaactact ccagttgacc ctggaacccc tagtatcccc tcaccaccac 480  
tcattccttc cccatcttcc ttactggca catgcaacta ttggagggat cattcagcat 540  
tcattctgtg aatccttggc tgggtggggaa ccctaagaag tgcatttg 588

<210> 2955

<211> 410  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220053a09d1  
  
 <400> 2955

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 gtgtcctagc tcgtctaaga gctagatttg cctcaattgg ttgtctcttg cttccgcct 120  
 tattcaaatt agcttctgct atttcaagag tttgctgtgc ttcttgggga tcaatggcac 180  
 tacccttttc cgcattcatt actaaaacag ggatctcatt attgtttatt ctagcaaaac 240  
 cgcccatcag agccatcggt aaccattggg ctttaagaag acgtattctc aaaataccta 300  
 tatctacggg tgtggcaata ggcgcatgat ttggaatac tccaatttgc ccgctattag 360  
 tagataaaat gatttccttc acttccgaat cccaacaat tcgattgggg 410

<210> 2956  
 <211> 554  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220053a10a1  
  
 <400> 2956

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 ggaaggtttg agtttgactg ggggcagaag ttgacaggc cagaaagagc atcctgatgt 120  
 taaatccaac caaccaatga aggcaagtgt tcagaaaaat ttacacaaga aatcttcttg 180  
 tgctcttaga cagaataatc tgaaacagaa ttattcaatt gacaaagaca aattaccatc 240  
 aaagccattg gttaccaatt caaacagtag gaaagttctg actggggatt cctcttatgg 300  
 acgccataga agctctagta ataaatccaa tgcaaacct aaagttggat ccagaaagtc 360  
 agccatggag gtgacagata gtgaaaagga ggtcttgat accagcacaac acagttttcc 420  
 tagaaagaaa aggtctacag acaaggactg gaatgatagg gttgtggata attgttcat 480  
 tgaaaaaatg cagaagcctg cttagtctaa cctagtgagt tataagcana atagttggac 540  
 tgaagaagtc aaaa 554

<210> 2957  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220053a10d1  
  
 <400> 2957  
  
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 agtgacaaat ttaacatcac tagattaact acacttctta attcttgtgc agatgcccta 120  
 catataggac ccagagggag tacataacta tgatgcgcga tgcttttttag gcgagaaatt 180  
 cagcttcaac cactttgatc tgatcttata tattagtaga cataactcata tattagccac 240  
 tttttgatag agcaccagcc gcaaaaagaa gattccttcg agaaaaccgc aatgagtaaa 300  
 ctggagtaga tttggttggg agagttttca gcatcttaag tctgttagca ctcccacctt 360  
 tttcttcagc cctagaaacc ttggtgctcg tatttacatc ccacaatttt acagtgcaat 420  
 cagcagatcc agatgctatc acagaacctt cagaactgat agcgagggac cagacacatg 480  
 at 482

<210> 2958  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220053a11a1  
  
 <400> 2958  
  
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 tcccgcttgg gtcttgaacc gttgtaaaaa tatggtacct tattgagtgg agatattata 120  
 actgagaaca tggtcgaaag ctctttggtt tctccttcac caccgaatcc tacggagggt 180  
 gaggggaaac gcaagccctt gcatctcca cttgctgctt tatggctggg aagtaacgag 240  
 aggacgcata agctgactat cttggcttga ggaaaattat ctatctggtc caattctgct 300  
 cgaaagggtgc aattttataa caggaagggtg tttgtgcagc atgaggagac aataagcagt 360  
 tattaggtca actttgatat caagcaatcc 390

<210> 2959  
 <211> 522

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053a11d1  
 <400> 2959

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 agctgattat gatgcttgca gcatcaataa agcagtatat aatatataca gatttttttgc 120  
 aaattagagg atccaaacaa acaagctaata caaacaattt tgaaagaata tattttttttc 180  
 ttgctttgta agaatatagc tcctctattc cctgttcatg gtaaccttat ctagattaca 240  
 tctgttgacc ttgacagtgg cacaaaatct atgaggaagc tggcattgga actcgaagta 300  
 cttgttgagc aaagcgtgct gcaagacgtt gagtgatccc acccataaca cgctcccca 360  
 gtctgcgtgc ttcaggttgc tgaagaacct gtagtatagg tagtaaaaga tctggatcat 420  
 aatcattaga ggatcgcaga agttcccata tcctaattac ttgatctcta agctctatca 480  
 agttttgcat ttcaatttct gacgttataa tgggtccatt tg 522

<210> 2960  
 <211> 573  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220053a12a1  
 <400> 2960

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 attgagctga gttgtatacc tgcaatgggt gttttgtggt ggaagctgtt ttttgcgtct 120  
 cttgctggga ttctcttctc aaccaacat tgtgcttccc aaaaagttcc gaactacaca 180  
 tttatgcaca atgcaacaac agcaccagac gtatcatact acgactacat cgtaattggc 240  
 ggcggcaccg caggggtgccc tttagctgca aactgtccc aaaattacag cgtattgctc 300  
 cttgaacgtg gtgggtcgcc ctacggcaac cctaacatct ccgacttagc tgctttcggt 360  
 gctgcctct cgcacacctt ccctacctcc cccgctcagc gtttcatctc cgaagacggt 420  
 gtcacaaact caagagcccc cggttctaggt ggtggaagtt gcttgaacgc tggctttaca 480  
 ctgcgcgtag ccctcaatat gtaaggggaag cggngtggga tggaagggca gtgaatgaat 540

cctacgaatg ggtggagacg atagtggcgt ttg

573

<210> 2961  
<211> 401  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053a12d1  
  
<400> 2961

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tcaataaagc tattttttat atatacagat tttttgcaa agagaggagc ccccccattcc 120  
attctcatcg cacaattttg aaagactacc ttcttttggt gctaggaaag aatatagcta 180  
ctctattccc tgaacatgga aaccttaact agaatacatc tgatgaccct gacagtggca 240  
caaaatctat gaggaagctg gcattggaac ccgaagtctt tgttgccgaa agccctctgc 300  
tagacgttga gagatccac cgatgacacg ctccccaagc ctgcgggggt catgatgctg 360  
aagaacctgc cctacaagta ggaaaagaac tgcatacataa t 401

<210> 2962  
<211> 502  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053b01a1  
  
<400> 2962

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catggagtgc gtaaaggctc ccaatggcgg cgccttcac tcttctctgt accacaagct 120  
tctttgtagt attgtttact ctactagtcc ccctactttt ttggtggatt tactggcgct 180  
gaagtatttc aagtatatcg atgtccggtt ttttacgttt ataagtctaa aaaagctcgc 240  
tagtactttg gagggaaaag atgtctcaga tgataaaatt gcaaagtctg atggttccag 300  
tgaaagtcaa atgagctcaa atatggaatg tgatcatcac aacatgtatt acactatata 360  
acatgttccc ccacatcaag gctcggataa tacatctgaa ttggaaatgt ggagcagctc 420  
agaaagtgac cataagcagc tttatggaga taagggtgct gatgataagc cacagaagtt 480  
ccagaagccc taacaaaatg ta 502

<210> 2963  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220053b01d1  
  
 <400> 2963

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 tgtttctact aaactgcaaa agtcaagaaa tgggtgctttt tgagatgaca tcaaaggata 120  
 ttccattttg ttgaagtctt tcttgagat cagttggacc aaagatgatc ccaggagggt 180  
 aaactcctcc ttttggaagg ttgtcacgtt ggcagagaag aacaagagca cactgaataa 240  
 gaattattgg tgtggtcaga tatccaactt caggtcccat aacccttggtt acaatctcca 300  
 tgtcaggttt tgtgtttccc tgtgaagcaa tgctcccatc actataacca tgtccaacaa 360  
 accacatctt gaaggaagca ctttccacct nctc 394

<210> 2964  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220053b02a1  
  
 <400> 2964

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 cctctaatta agccaccaat tagaagaggc aattttctca agtcagagag agaagaacat 120  
 ctttgtatca gtgttgcatc cactctctga tgggtgtagt gaggggggtg atattggatg 180  
 aatcagtact cttggctgaa agtgatgatg ataaaactgt atctttactc cgaccaggag 240  
 ctgagtctct catccaaaca ctggttctat ccagaacgca tagtggaatt gctcatggtg 300  
 ttggcctttc agatgacaag gtgagtgttc ttaaaaaatt tgctagtttg aactcacttg 360  
 attgctttat cttaaagat catgtaagt aggttatggc tggatggagt aatgctgatg 420  
 atggcagtgt tattatttat ctgatttcta ataagaagga gttcttacct aaattaagca 480  
 gctataattg gctggatgtt gtctgaatgt tgga 514

<210> 2965  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053b02d1

<400> 2965

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 agggcccaag gggttttcaa aaacccaat ctccccccc tcgaaaaatc ctgaaaatgg 180  
 gggcccaaca aaaccggtgc cccctgggag ggaacctga cccaaccgaa aaacctggc 240  
 cctttcgcta acgggggaac cctttccaaa ccgaggaaaa acctcaaate ccggttccca 300  
 aaaaaaacc cccccaaagg cgaaccgccc tttctt 336

<210> 2966  
 <211> 575  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053b03a1

<400> 2966

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 taagcttcat ccttccaaca agctctactt cccttagccg ggcaagcagg ctaagagtgc 180  
 cgtcaggatt aaaaacacca gcaaatccaa tgtagctttc aagtttcaaa caaatgcacc 240  
 caagagctgt ttcacgcgac ctctggggg aattctagca cctggcgaga gtataattgc 300  
 aactgtgttc aagtttatag agcatccact gaataatgaa aagccacaaa aaactggagt 360  
 caaatttaaa atcacgagct tgaaggtaaa aggaccaatt gattatgtcc ctgaaatgtt 420  
 tgatgagctg aaggatcaag taacagtga gcagattttg caagttgttt ttctggatcc 480  
 agagcgtagc tgtcctgctt tggaaaaact gaagcctcag cttgctgaag ctgatgcctg 540  
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<210> 2967  
 <211> 324

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053b04a1  
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 tgaggctgat tgctttcacc aagctttact ttccttagcc gggcaagcag gctagaagtg 180  
 ccgtcaggat taaacagacc atggagacca atgtagcgtt ctagttgcag acggacgcac 240  
 ccaagagcat gtatgtgca cctcctgaac gaagattaac gcctggcgag cgtttcattg 300  
 caactgtgtt caagtatata gggc 324

<210> 2968  
 <211> 540  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053b05a1  
 <400> 2968  
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 atatcatatc aactccaaat gatgaaaaat attgggttgt ttcttcttgt ggtggtggct 120  
 acttttgtgg tggcagccac agctggtagc ttttaccag actttgaaat aacatggggg 180  
 ggtgagcgtg ccaaaatcta tgaaaatgga aatcttctca ccctctccct agacagagcc 240  
 tctggctctg gctttcgttc caaaaaagaa tacttggtcg gaaaaattga catgcagctc 300  
 aagctcgtgc ctggtaactc tgctggaaca gtcactgcct attatttatc ttctctgggg 360  
 cctactcatg acgaaataga cttcgagttt ttgggtaact tgagtgggtga tccttatact 420  
 ctccacacga acgtattcag ccaagggaaa gggaacagag aacaacagtt tcatctatgg 480  
 ttcgacccca ccaaggactt ccacacatac tccgtccaat ggaatccttg cagcatcata 540

<210> 2969  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053b05d1

<400> 2969

aaacccaaac agcaaacaag ttcaggggag aaattgaaca taacagacat gacatacaag 60  
aacccttgaa aaaagacacg cttaaaacaa gaacccttg aaaaaaaca cgcttaaaaa 120  
ccaccgcgaa ggcgaaggac gagatgcaag ggggattcct tctgaatatt ggaatctgcc 180  
aagggacgac catcttccag ttgcttccca gcaaaaataa gcctctgggtg atcaggggga 240  
atgccctcct tggcctgaat ctttgccttc acattatcaa tgggatcaga actttcaacc 300  
tccaaagtta tggtttttcc agtcaaagtc ttaacaaaga tttgcgtgcc accacgaagc 360  
cgcaacacca agggcagggg agattccttc tggatgttat a 401

<210> 2970

<211> 559

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220053b06a1

<400> 2970

cattagcaaa agcaagaaga actagtctaa gcagaaatgg cctcttcagt gatggcatct 60  
gtggccctca aacctgcccc tttcactgtt gagaagtcct cagttagagg ccttccctcc 120  
ctctcaagga actcctcttc attcagagtt gtggccagtgt gtggcaagaa gatcaagact 180  
gacaagcctt atggaattaa tgggtggcatg gctttgaggg aaggagtga tgcattctggc 240  
aggaaaggaa agggaaaggg cgtttaccag tttgtagaca aatacgggtc taatgtcgat 300  
ggttacagtc ctatctacga caccaaggac tggctctcaa ccggtgatgt ctacgctggc 360  
ggtagcactg gcttggctat ctgggctgtg actctacttg gtcttcttgc tgggtggtgca 420  
cttcttgtct acaacacaag tgctttggcg caataaactc tgcanatcga tgtttaagct 480  
caaacttagt ccatgttact atctaaaaat gaagaattat tcatgaagta ctttgtggat 540  
acgtgttcct tctgttcta 559

<210> 2971

<211> 553

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220053b06d1

<400> 2971

atacaaaactg ttctacacat gtatcttcaa aatcattgta taaaattcag accctttact 60  
tatttataaa cataagcctg atattgacca ccaaagtaaa ctagtttggt ttgtttatct 120  
tgtcaaaaga gagcttcctt ctttgataag aacaaacaca ctgccaccat cgccccttga 180  
gatacgcaat tcttcgtcga ggtatgtggt gagtaaccag gactgagcat tgctgttgga 240  
aattgggatc ttcaaggag gcctacttga aattgttttc actaccgatg tggctgtgtc 300  
ttggacagag gtaaggatgc ctttgaaaag tgtaaggta atcttttgac ccagaaattc 360  
cacattttcc ggtatctcta atgagtcctg aagctgtgga gtgccaatta tgccttcctc 420  
aaactttatc tgcacacgtt ttggacttcg aacatcaaat ttggcattag tactaattga 480  
ggtggtggcc aaaggaccag cgaactgaac agagttttgg acggtaaaat tcagcgagtc 540  
aataatctgg gat 553

<210> 2972

<211> 466

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220053b07a1

<400> 2972

tatttttggga atacttggtta ctggtgagta agacaggga accagaaaca ggagataagg 60  
taaggcaatg cacgcaactc caatcttgaa tcaactctga ctctgcactc tgcacaatgc 120  
ttttcctctc cgtccctact ttcaacctca aaccataac acccaatgac ctctttctct 180  
catcagcctc tccctcacct caccgtcgct acttcgagaa acccatctcc gccgtcctca 240  
actcatcttc cttcaagaaa cctgagcagc ctctgctgcc gcagcatcaa gtctaccagc 300  
ccttgcgccc tccccgtct tcccttcct tgcaattcgg cacccttgac atcgccggcc 360  
gaatcgacat actcgccaac cgctcggtc tgtggtacga gtacgcgccc ttaatcaatt 420  
ccctaataccg cgaaggttc tcccttcga caatcgaaga aaccac 466

<210> 2973

<211> 540

<212> DNA

<213> Glycine max  
 <223> Clone ID: jC-gmf102220053b08a1  
 <400> 2973

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 gctgatgtaa aacgagtaag gaggatgcta tccaataggg agtcagcccg tcgctctaga 120  
 agaagaaagc aggctcattt aactgaccta gaaacacagg tttctcaatt aagagggtgaa 180  
 aattctacct tgttaaagcg ccttactgat gttagtcaga aatacagcga ctctgctgtt 240  
 gacaacagag ttttaaaagc tgatgttgaa acattaagag caaagggtgaa gatggctgaa 300  
 gagaccgtca aaagaattac tgggttgaac ccaatgcctc atgcatgtc tgatatatca 360  
 tcattggggc tgccatcatt tgatggaaga agcccttcag acacttcagc tgatgcatct 420  
 gttcctgtgc aagatgatcc acatcatcac ttctatcaac ccacattgaa taatcctatt 480  
 cccagtcatg atccgatagt caacaatggt ttggggggca tttcttcaat tgaaaatgtg 540

<210> 2974  
 <211> 543  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053b08d1  
 <400> 2974

gaacatcaaa tacacatgac aagttgaaga gtaacattat tattgatttg tgtgagttaa 60  
 ttatgagctc acatgtattc caatacgatg gaaaatatca taacatgaat ctatataaat 120  
 tcatgatgct attatatttatt cttaatatgt atgggtatata actcatcatc ttaaatggta 180  
 gccatctcgc tgctacaaat gtaacaacct agtagggctt ttggccaaca tagttgccag 240  
 gaggagcata gttgcaagtg atgaaagtgc ctccattatc acatgctact ttggcacatc 300  
 caagacgcac agagtctctc caaacaacct gagtgtaatg cagacactct ccaccaacac 360  
 aggaattaga attgtagtca tagttagact tctcatcaac ccacaatttc actgcatctg 420  
 tgccacttag gtcaccagtg ctcatagcaa gattctcccc gtattggcca ccaccaccag 480  
 agtggatcag ttgacaatca cctttacgtt gattagcata gttctgtgca aaagcagcaa 540  
 ccg 543

<210> 2975  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053b09a1

<400> 2975

ttccttttct tgaaacttcc ctctttcctt aaaggattcc ctctaattt ggtgggatta 60  
 tccaagttt cagctgctac cactcatcag cattgccatt tctgttttca ctcaccacat 120  
 ggaaaagctt attcgcatgt tccctttgct tcttcttctt cttctgttcc ccacttttgc 180  
 cttcgctggc catgactatg gccaagctct gagcaagagc cttctcttct ttgaagccca 240  
 gagatctggc taccttcccc acaaccagag agtcacatgg agagcacatt ctggtttgca 300  
 agatggcaaa gcaagcgggg tggatctagt tggagggtac tatgatgcag gggacaatgt 360  
 gaagttcggg ttacccatgg cgtttaccgt tacgatgatg tcgtggagca tcattgaata 420  
 cggcaaacia atggctgcta gtggtgaact tggtcacgcc atggaagccg ttaagtgggg 480  
 taccgactac tttatcaaag ctc 503

<210> 2976  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053b09d1

<400> 2976

gacacagtga agttggattc atctatattg catcatccct caaaaatagt actagtaaaa 60  
 ctggcaatga agttgttcat gaacagtata aaaatcgtca aagaaaaatt acagggtcgt 120  
 catatatcta cacaacgcag gagggttgat agacttgctg cagcataaag taggagatga 180  
 tatttgtgca agtgaacaga aattaataga cttcgacatt ccattgctct gctttcttca 240  
 attgcctctt gtactcagtc caatcaatgc catctttggc agccaatgac accataatgt 300  
 catcaattcc cttttccatt ctttttagtc cacacatgta cacaaaagtg ttatccttct 360  
 tcagtaattc ccaaagctct tctgcgtatt gagccattcg ggtttgatg tacatcttct 420  
 cccctttctc gtttgtttgc tctcgactca cagcgaagtc aagcctgaag ttttcaggac 480

ttttctcttg catcttctca aactcctcct tgtaaagcaa tg

522

<210> 2977

<211> 490

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220053b10a1

<400> 2977

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ttttctccga gtttttatta tcatcatctc tctcgtgtcc ctgtctccat ctccatctct 120  
tagtttcttc ttcaaattggc agaagttgaa gacatagaca accctcatca cgaccaccat 180  
cattaccttt cttcttctac aacacaacct ccaatgatca atttcccgcg agatctgtta 240  
agaaccttcg tgggagtgaa caacaacagc aataaaaaca ataacaacag tcagcaccac 300  
aatttgcccta tgccagtggg gaagttagag gatgagaaag aagagctgga actaagtctc 360  
ggcctttcga tgaatggtag atttgggggtg gaccctacag cgaagaagat aaagagaaca 420  
acctcgatac cggagtttgt gcgcgacgag gagatgggat atgctgctgc gatgggggtgc 480  
acggngtctc 490

<210> 2978

<211> 473

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053b10d1

<400> 2978

aaaaggaatc catatgcgct ccattataat ccttattggc cacagtataa aaaagcccat 60  
ccaccataaa tagaaaggcg cccatcatca taatcatttt gatgacaaaa gtgtaaaata 120  
gccctccaaa agatctattg tacggattcg acgaccatta caaaaaaata aactggtaaa 180  
tatcggagac totcaagtcc atataactga atttttattg ggccccctgg ttctctttgg 240  
gcaagatatt ttctgtagaa ctgtgttacc ttcgaggggg gttttatcaa gaaagaacag 300  
gcctagctct tttttcaaca ttaaactgtg cgccacaag gcctgtaacg ccagcagtaa 360  
ttgtttgacc ctctttgaca gggccaacac ccggggggagt accagttagt atgacatccc 420

ctttaaaciaa tgtgatgaca gagccaaggt agctaattag aaatgggata tta

473

<210> 2979  
<211> 638  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053b11a1

<400> 2979

aaaatcaatt ttctgtcttc ttgagctctt ctctctctat caatcgtttt gcatgggtcg 60  
taccaagcaa accgctcgca aatccaccgg tggaaaggct cctaggaagc aactcgccac 120  
caaggctgca aggaattctg caccgacaac cggaggagtc aagaagcctc atcgctatcg 180  
ccctggaact gttgctcttc gtgagatccg aaaataccaa aagagcacag agcttctgat 240  
ccgcaagctc ccttccagc gtcttggtcg tgaaattgag caagacttca agaccgattt 300  
gaggttccag agtcacgctg ttcttgagct tcataagctc gcggaggctt acttggtggg 360  
tttgtttgag gacaccaact tgtgtgagat tcacgccaag agggtagaca ttattgcca 420  
aggacattta acttgactc cgcattcgtg gagaacgtgc ttaggcttat taatagaagt 480  
aatagctagc tgctgctgct ttattctttt tgcaatacat tttgtttta ggtattttta 540  
tgtaagttcc gttggtggtt tgggtgtata gaaatagatt atcattcaca ctttgctctg 600  
tatgatctaa ctgaattttg ataattgatta cctctggc 638

<210> 2980  
<211> 339  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053b11d1

<400> 2980

aaacaagctc gggcgagaat tctttcactg gtttctcatt tatactagct taggtcaatg 60  
accaccaccg cttagatac aatcaaatg ctaaaagccg ggatccctcc aaaagctcga 120  
gattttctca ttaagctaag ctctcataa agaacatagt gattgttttg ttggacttac 180  
tcaccaaatt acctaaaaa catgggtgct taagtgacta ttagtattcg gtaaccaggt 240  
ttttattacc ttagggtttt atgatattgg ggtggccctc aacaacaaag catgctcaag 300

ctccacctcc acttccccag attgttgccc gccatttg

339

<210> 2981  
<211> 529  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220053b12a1

<400> 2981

caaaaacccat ttaatttttc tctctctttt ttcttttttt tctttttttt ttctctggtg 60  
tctgtcatgg aagttaatac tactacaacc actgtacctt cagggccacc aactaggaac 120  
cattcttaca cacaacaccg cttacattca gaaagacata gccataacca tagccatggc 180  
catttcccct ccaaaaacccat tctcataatc atcgcatctg tcaccttagt cacggctcta 240  
tttatcatth tctgtggtcct attcttgatc cgtcgccaaa aatcctccag caagaatgga 300  
acttgccaag aagacagcag agagcttcat gacacaagca gcaggctcat cacttcaaca 360  
acgttgaatt ctagcccaga tgtgaaaagt ggggtgtctt atgggggaaa tttgagcagg 420  
acccagcac ctaaatttcg tggagtacaa gtgttcacgt ataggaggtt agaaattgcc 480  
actgatggat tcagcgaagc aaatgtgatt ggtagtaatg gaattattg 529

<210> 2982  
<211> 466  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220053b12d1

<400> 2982

aaaagacaac ctccaacggc taaaagaaaa agaaccaccac attgataaat tgacttaact 60  
agttaaatta tctttcccag tcaaaccata gggtcttaac aaaattaagc cacataacct 120  
atccagcctt caaataaaca tcaaatgat atcgcaaatt gctagctcaa cggcgactgc 180  
acggtagcaa aacccatgaa agttgatata ttctctaagc aaccagagtg ctagcagttg 240  
ttgattcgta cttccagact ggtgggagct tcttagtctt cttgtaatag cgagcaagtc 300  
ggtaggattct gctctcaaca agaactcaacc tgaacttgga gtccttgccc ttctgttcc 360  
tctcaagatg cttcctaatt gaaactgcct tcttaatcaa atggtacagg tcctctggaa 420

tttcaggcgc aagtcctga gctttgagga tgcgaaggat ttgct

466

<210> 2983

<211> 130

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053c01a1

<400> 2983

ctccagctat atcattagct gagctgtctg ttggtaaaac gcgttatagg ggctccttga 60

acacacctac aatgacaacc gacagcgtgt cagttcacgg aaggttgcac gcacacctg 120

ttgcgagtgc 130

<210> 2984

<211> 507

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220053c01d1

<400> 2984

gacaactatg gattatttta tttatatacc aaagtaatca tacaaataaa atattttgaa 60

ctaagatggg gtacatctag attttgtgta ccaactcctt aaaaattgtc tctataccct 120

gcttctgcta ttggaagcaa tggaaatcct ctgatcctga agcatgttca agttgggagc 180

cagcaaccgt gtgtaccggt caaagtacaa gagctgtttc aggagaagag caaattctct 240

aggaaacttc aatccatag attcactaac ccgaaccaca tcaagaaaga gtgcattcat 300

ctgcctctca tcaacaacta tattagcagc aacagcagtt gcatttgtgg ctgttccagt 360

tgtagttgct acaactatatt cagtgtccaa ttccttaatt gatgagaata cttnttccaa 420

atctcttgca aggccttagc atcaacatcc tggttttag caccatttc aattaaggag 480

atgccattga gtcataatct tcaatgc 507

<210> 2985

<211> 581

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053c02a1

<400> 2985

gcagaaagca agctcatcct agagtttttaa aaatggcagc agcctcctcc atggctctct 60  
cttccccatc cttggctggc aaggccgtga agctgggccc atcagcccc gaagtcggga 120  
gggtcagcat gaggaagacc gtcaccaagc aggcctcctc cggaagccca tggtagggcc 180  
cagaccgct caagtacttg ggcccattct ctggcgagcc cccgtcctac ctactggcg 240  
agttcccagg tgactacggc tgggacactg ctgggctttc ggccgaccca gaaaccttcg 300  
ccagaaaccg tgagctcgaa gtgatccact ccaggtgggc catgctcggg gccttgggct 360  
gcgtcttccc cgaactgttg tcccgcacag gggtaagtt tggagaagct gcgtggctca 420  
aggccgggtc ccagatcttc agcgagggtg ggctggacta cttgggcaac ccaagccttg 480  
tccagcccca gagcattctc gccatctggg ccaccaagt taccctaagt ggtgctgatg 540  
acggttatcg aattgctggt gggcccctcg tgagtcactg a 581

<210> 2986

<211> 547

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220053c02d1

<400> 2986

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aatccaattt gcattaatta tataagggaa cttgaaacat accccgggga aatgattcat 120  
gggtaagtta ttcatttagt aattaaatct tcgtgaatcc cccctttttt taattccagt 180  
taaataccctt atcacattca caaatataca taaaggggga agttctatta gaaacttgcg 240  
ttttctcttt cttttttttt ttacaaaaaa tggatcgaag tttctcatat aattcgggtg 300  
ttagaaagat taccatatat aacataaaac ttctccgcca attctttcta atcgagcctc 360  
tcgatctgtc attatacctc tagaagttga aagaattaca atccccatgc cccctaaaat 420  
tcgagggatt cggtgataat tagaatatat tcgtagaccg ggtgtactga tccgttttaa 480  
atttaaaaaa cttttatatg atccctttct atttcttcta tanccgagag ttaaaaactaa 540  
aaaaata 547

<210> 2987  
 <211> 560  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220053c03a1  
  
 <400> 2987

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 ttacagtgct tctacaagac catataggtg gcctccaagt tcttcatcag gacacgtgga 120  
 tcgatgtaac ccctgtgcct ggggctctag ttgttaacat tgggtgatttt ctacagctaa 180  
 tctcaaatga caaattcaag agtgctcaac acagagtact ggccaaaact gttgggtccaa 240  
 gagtctctat tgcatgcttt tttagtccag cattccatcc atcttcaagg acttatgctc 300  
 ccattaagga acttttatct gaagacaatc ctgcaaaata cagagaattt tcaattgcag 360  
 aatttacagc tcaactacaga acaaaatgca tgaagggtac ttctcctcta ctacatttca 420  
 agatttgaca agtacaatgt tgtaaaagtg actatgtcct tgatccattg ctcttcgtta 480  
 acggagctga atgtagcaaa ttttggaact tccactgtgt catttcttga gggagaatta 540  
 atgataaact tggaagagat 560

<210> 2988  
 <211> 548  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220053c03d1  
  
 <400> 2988

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 caaatttcaa ccacgcatga gcaatccaaa cgagtcttaa ttatttcaac caaaaggggg 120  
 gggctcaaac tccaggatta taagctgatg gcatgaaaca acaaaaatga aaattcttga 180  
 tcgcaagact atgggttcta agtatcaagg tcctaaattt gggaaaatat caataccaat 240  
 atttctcatc cataattatt caaatgacaa ggcaatcggc atgattatcc caggaaattg 300  
 tcgtcatcat ttttagccgc cgccagatcc atatttcttt ccaaacaaaa tgagctgcag 360

cttgtcataa ccagcaagca caccagcacc tgcaacagca cgcaatatgt tcgcaccagc 420  
acctttgaag agtgacttgg caccctcatt tgcgacgatt gtttggaaatg catgcaaaga 480  
gctcttgtac ttcacagctt ctncagaagt catcatcatt cttcttncga cagtgtcaat 540  
ggggatag 548

<210> 2989  
<211> 485  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220053c04a1  
<400> 2989

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agtgagaaaag gggccatgga caatggaaga agacttaatc ttgatcacct atattgccaa 120  
tcacggggaa ggggtttgga actctttggc caaggctgct ggacttaaac gtaccggaaa 180  
gagttgccgg ctccggtggc taaactacct ccgtcctgat gttagaagag ggaatattac 240  
acccgaggaa cagcttttga tcatggaact tcatgcaaag tggggaaaca ggtggtccaa 300  
aattgccaag catctaccg gaaggactga taatgagatt aagaactact ggaggacaag 360  
gatccagaag cacctcaagc aagctttcag cagcttccag caacagagta gtaattctga 420  
gataatttat catccccaag cttgcactag ccaagtgtcc accatggcgc aacccataga 480  
aacct 485

<210> 2990  
<211> 469  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220053c04d1  
<400> 2990

ggcacaagaa catatcagtg ttcattctat aggggttagg caaaattaaa tgtttatgta 60  
cacagcaact gggataattg gaaaatccta caaggttccc caaaagacct tgcaaagtga 120  
gaagtgagga gactaccaat taaccttgac caacctatct aaaccaagtt caaatatcta 180  
caccagataa agtaataagt tcacaggaaa caagagcaga ggcaagtttt ccctaaaact 240

ccatattcca gatcttattg aaatagtaaa aaacaaacac tcttctcaat agcagtcata 300  
aaagtttccct gccgcagagg gaacagaaaa atcagtctgt gtctgttcaa gattcataag 360  
tccgcactga atctcgaatc tcttgacgac aaacaggaca tttgggtgca acttcacgtt 420  
caactgatat ggcacaccct tgtgaacaca caagatgccc acaggggaat 469

<210> 2991  
<211> 458  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220053c05a1  
<400> 2991

aaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaaaaaa tataaaaaaaaa aaaaaaaaca aaaaaaaaaa aaataaaggg gccggccccc 120  
cctttttggc cttccccccc cggaatttaa tttcgccccg gtccctgggg gcctccccct 180  
tttccctttt gggggctctt ttttaagctgg gcgtaatcag ggccttagtt gtttccgggg 240  
gaaaattggt ttccgttcaa aattccccac aacattcgac ccggaaactt aaagtgtaaa 300  
ccccgggggc cctatggggg ggccctcccc ctttttattg ggttggcctc ctttccccct 360  
ttccatacgg aaaacctgtt ggcccacctg ttttaattaa atccccccac ccccgggggg 420  
gggcgttttt ttttttggcc ccccgggggg tttttttt 458

<210> 2992  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220053c05d1  
<400> 2992

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acaaacaaaa ggggtagggg gtaatcaacc ccccccttt ttgtaaaaaa tttgcccggt 120  
cccgattta aagccgcctt gaaaaaaaaaaa aaaccttga accccccttg ggggtcggtt 180  
tttttggttg ggccccccac ctcaaagggg ggggggggta gggccccct tccgggtata 240  
atttccccca tcaaaggga aaccaaacc cattgggcc atcttcccc aaaaagccc 300

gttggtttctg ggaatcccaa aaaagggccc ggaccaagac caaaaacttc cctgaagcct 360  
 ttggctgggg ggaaaacacc ccccgggggg gggcggcat caaaaaattt ttcacggcac 420  
 ctaaaccccc aatggg 436

<210> 2993  
 <211> 549  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053c06a1  
 <400> 2993

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 caagaacacc aaacccaaaa tgtggactga gaattggact ggctggtaca ctgattttgg 120  
 cgggtgcagtc cctcgtagac cagcagaaga cttggcgctt tcagttgcaa gattcataca 180  
 gaatggtggt tcattcggtta actactatat gtaccatgga ggaacgaact ttggccggac 240  
 atcaggtggc ctcttcattg ccactagcta tgactatgat gcgccgcttg atgaatacgg 300  
 acttgaaaat gaaccaaagt atgagcattt gagagctttg cataaagcaa taaaacaaag 360  
 tgaacctgct ttagtggcta cagatcccaa agtgcaatcg cttggatata accttgaggc 420  
 ccacgtgttc tcggccccag gtgcttgtgc tgcattcatt gctaattatg acaccaaadc 480  
 ttatgcaaaa gctaaatttg gagatgggca atatgatcta ccgccttggt ctatcagtat 540  
 tcttctga 549

<210> 2994  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053c06d1  
 <400> 2994

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 gtttctgttc tctatcaact ttagtccttg ttgacctttt ctagacaact tgggtgaagg 180  
 tcatagtcac agacatcaca agagaatgtc caaaacttgc cttgcttttt acatgaatca 240

catacatatg ctttggccat atccaatttc agtacatggt catgcttcac atcctcaacc 300  
 tgctgaggca aagcctctcc ttcccttcta agagctgctt cgaggtctct tatccgtgat 360  
 tcggtgaacg ggaaagcttc tgcaccgtat gaggagacca ttaacttccc attcacacta 420  
 atgactttgc catctggtcc aatgagaacc aaagcaggaa tgccttttac atcaaagatt 480  
 cttcgaaggt catgcc 496

<210> 2995  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053c07a1

<400> 2995

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 tgagtgaatc acgacgaaga agaagactaa taagacgaag aagaattgcy aatatggtgt 180  
 ttgaggaaac ttgactgagg ctgggactgg gactatgtct ccctggaaat ggaaccacgg 240  
 caacaactga agctgctgct gcggaattag gagagaggaa gagagggttc tcttatactg 300  
 aaactgatga aacagcccc gtcgatttga tgcctaacct tccaccaac gaagctgctg 360  
 ctgctgatgg tgcatatcca cgtgagaagc caaagacttt tgcgtaggag aagacccttc 420

<210> 2996  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053c07d1

<400> 2996

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 aaaaccccaa attaaaggtt gggccaacgg ggcttttctt ttatgcaaca taaatttttc 120  
 ctggggaagg aaatcaaaaa ttcatcttaa ataggcccc ttttgtttaa ttgggtgggg 180  
 gcccgaagaa aaaccacgg tgggatgggt gtccatacgg ttgaaacaaa ccccgcggtt 240  
 ttctactttt aaccgtgact agggttcatt cgctcacggg gggggccaac aaaaaggagg 300

caagaggggg cccacaggg ttgctcccga accca

335

<210> 2997

<211> 522

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053c08a1

<400> 2997

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ggggttccct tgttgcttgt tatcaccttc tggtatgcta cttctactgc tgcagcaaca 120

actcaagttt cagggaatga agagctgcc aagacaaacc taaatgggca tgatgaagaa 180

gcaaaattcg gattttttca tcataaacca atattcaaga aacatattcc aattccagta 240

tataaacctg taccaaagcc atttccagtg tataaaccta taccaaagcc agttccagtt 300

ccagtgtaga agcctattcc aaagccagtg tataagccta ttccaaagcc agttccagtg 360

tacaagccta taccaaagcc agttccagtt ccagtgtaga agcctattcc aaagccagtg 420

tacaagccta ttccgaagcc agtgtagaag cctattccaa agccagttcc agtgtagaag 480

cctataccaa agccagttcc agttccagtg tataagccta tt 522

<210> 2998

<211> 419

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053c08d1

<400> 2998

atataagtag aaatattatt cttatcggtta aaattcggtta gacatacatt ttatgatttt 60

aatatattgc ttttgaactt ttctaacctt aacatgaaac taagtgcagg ttaaggtgag 120

caaggtaaat ttatctgcgt atgataataa aaaaaagaga gtctttaacc ccatagctag 180

attggttaaca attaagatgg tccaaaaata ttgggtggaa gggttgatgg tagagagaga 240

gacaaggggt gaaatatgta tgattctagc ggtgatttga ataacaaaat ttaacagcac 300

agttggaagt tatgaaatac aaccagggca gtgtgccaaag ccattctcat tacaattggg 360

gcacctctct atgtgaagaa gcttgcgact accagcacag tcgaagaagg aacgaacct 419

<210> 2999  
<211> 450  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053c09a1

<400> 2999

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cgctgccaac gttactttcc atttttaccc ttcacccctg agaaaaaat ggcgaacgca 120  
gcatctggtc tggccgtcca tgatgagtgc aagctaaagt ttctggagct caaggcgaag 180  
aggacgtacc ggtatatcgt ttttaagatt gaggagaaat cgtagcaagt tattgtggag 240  
aagctgggtg accctgcaaa tggtatgat gaattcgctg ccagtctttc tgctgatgag 300  
tgtcgatatg ctgcttatga ttttgatttt gtcactgaag agaattgcc aagagcaga 360  
atcttcttca ttgcttggtc ccctgataca tctagggtta ggagcaagat gatttatgcc 420  
agctccaaag attgattcaa gagggagctt 450

<210> 3000  
<211> 406  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053c09d1

<400> 3000

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aaaaccgggc cccccccaca agggggggcg gggcaaacc cctttttggg aaaaacccc 120  
ccccccacaa aaaaaaaccc cccttcccaa acctgggggg ggttcccctt ttttaaaaaa 180  
aaggggggaca cccccgggaa aaaaaaaaaac ggggctaaaa aatttcccc cccttttaaa 240  
attttgagaa aacccccaaa aaaaaaaaaaa aacctgtaac cgggtggggg ctgaaaaaaa 300  
gaaaacccaa ggccccaaaa gtttattttc ccccccaaaa accccccttt taaaaacctt 360  
ttttgggccc ccccccttt ttgggaaaaa accatcccca aaaagg 406

<210> 3001  
<211> 480  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220053c10a1

<400> 3001

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gatggggcgcg gccttcggcg gcggtggcgc tccaacgccg acttacagtg gcggcgccgg 120  
agcacagggc tccggcgctg gcaaggatcg gaagatggcg ttcgcgagc aggtcgtgct 180  
cgaactcacc aaccctgaac tccgtgaaaa cgcgcttctc gaactctgca agaagaggga 240  
gctatttcaa gatcttgctc cgctgctatg gaattctttt ggtactatcg ctgcacttgt 300  
gcaggaaata ggttcaatat accctgttct ttcaccacca aatcttactc ctgcacaatc 360  
gaaccgagta tgcaatgctc ttgctcttct tcagtgtgta gcatctcacc ctgatacaag 420  
gatgctattc ctcaatgctc atatacctct atatctgtat ccctttctta aaacaacaag 480

<210> 3002

<211> 586

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220053c10d1

<400> 3002

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gttttatctt attattggtg tatttttagcg ttgtgtttat ttggagtat acttagcgca 180  
cataaacata ttatcgcggt tatttgttct gtggactata aatggcatag aaccctatag 240  
gcggtgggct ccacagaaaa gaaagcgcta tgtgcatttt atttttatgg ggatgaggct 300  
tagatagaaa caatacatct taactatatg tggatgcttt gccaaagtat tctgccatca 360  
tactggcaat acagtgagat gtagactgaa tggttaccat ggggttgaca cccactgcac 420  
tagggggaac actcccatca cacacatact agccttctgc ttgcgaagac tcaccattct 480  
cattgggtgc accttcttct tcagaggcac ccattctaca tcttgacatc tgatgtgcag 540  
tggttaacac tgtacacact ttattccttg accttggacc cccaac 586

<210> 3003  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220053c11a1

<400> 3003

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tgagttggct accaattaca aaaggtgtgg gcgtctgggt ggatggccct attattgtgt 120  
ctgcgtgtct ttgtgtctat gtaaatttaa ggagaaataa ccacaagggt attttatttt 180  
ttctcttttt ggaaggacct gggagaaact agaaagtaat acagaaggga gaataatgtc 240  
cagccggagt gcacttgata gtttgtatta atccacaatg cttttttgtt gatcaattgc 300  
agaattcaga gattcattat aaatatcata cataacttgt cccnnnnaaa aa 352

<210> 3004  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053c11d1

<400> 3004

ctctctccaa aacacagggg gggggacacc aaattttacc acaaaccccc ccctctcaga 60  
ggatgcgacc ccccgagggg ggggaagggt gcaacaccca ccaataaaaa aaattgggtc 120  
tttaagacct attttccaca agcgattatc cgttagaaaa aaccaacaa aatttggggg 180  
cacctaaaaa aaaaagggtc cggccaataa taataaaaaa atctcccccc cccccccagg 240  
acacaaaaac cccaca 257

<210> 3005  
<211> 489  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053c12a1

<400> 3005

agcaagaaaa gagggttttt ggctgcggtt aaggtttttg aggagctgat ttccaagggc 60

tatgaatcgg gtcaagtcac ctatgcttcg gttataaatg catattggcg tctcgggcaa 120  
tatagcaaag cagaagaggt gtttttagag atggagcaaa aggggtttga taaatgtgtt 180  
tatgcttact ctacatgat tgtgatgtat ggaagaacgg agaggggtgag aagcgcgatg 240  
aagttggtgg ccaagatgaa agaaagaggg cgcaaaccaa atgtgtggat ctataactcc 300  
ttgatagaca tgcattgggag ggacaagaat ttgaagcagc ttgagaagct gtggaaagaa 360  
atgaagagaa gaagggtagc accggataag gtgagttata ctagcatcat tgggtgcttat 420  
agtaaagcag gtgaggtcgc aacctgggtg aggtttttca atgagtatag gatgaatgga 480  
gggcttatt 489

<210> 3006  
<211> 323  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220053c12d1  
<400> 3006

gcataaacga atataatggt tggaatacga agttggggga ccaaagttgc aactcgaat 60  
agcgcgcagc ctattacaa taaacttgac gtccatgag tcttcaaca agctagatgg 120  
ttgatgtgga acgctttctc tgtgcataag aatcatctaa cctatgccac catgtggaca 180  
aaactttttc catcatgtgg agaaccaatg atactacggg agatgttcac taacatattt 240  
cgggcttcac ctatggtgat tcaagcctgc taacaagagg accgtgcatg tcccaaccaa 300  
aggggtacac cttaccctcc aaa 323

<210> 3007  
<211> 417  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220053d01a1  
<400> 3007

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cgagaaaaca aatgttgcac cccatgact gtcgtattcc atccatctat gggttccggt 120  
gacgtttatt tttggaccgt ggtgcttgtt caattatgaa tgtagtagt agttatacat 180

aaaaaaaaa aaaaaataa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaaatata tataaataa aaaaaaaaaa aagggggggc 300  
 cccacatag ggacctcttt acccggggaa ttaatccggg accggtccct ggggggtttac 360  
 catttttccc tttagagggt ctttttaaag ttgggggttaa cttgggccaacttttt 417

<210> 3008  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053d01d1  
 <400> 3008

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 accgaaccaa aaaaaccagg ggcaaaaccc ctttaaaaca gaggggggaa aaaaaaaaag 180  
 gcccgaacac gaaagacaat cccaaaaggg ggaaaacccg aaggggcaaaa gggacgcccc 240  
 cagaaagggg caaaaagggc ggccccaaaa gaggggtacc cccaaccgga aagggaaaag 300  
 ggccaccccc aaagggccccc gaaaaagggg ggggggcgca ggcgaacc 348

<210> 3009  
 <211> 597  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053d02a1  
 <400> 3009

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 acgaacttcg gctccaccta ttgaagatgc caaagatgat gatggaagca gcaacaaagc 180  
 tcggcggcgc atgtccatgt ccccggtggc atctagacca aagaatgatg atgccactgc 240  
 caaggcagaa accaaaaagc ttgatggcac atcaacaatt tcttcagggtg acagtacag 300  
 gaaagggatt tggaagtgga agcctattcg ggctttgtct cacattggaa tgcagaaact 360  
 aagctgtttg ttttctgttg aagtggcgc agctcaaggc cttccttctt ccatgaatgg 420

acttagacta tccgtttgcg ttagaaagaa ggaacaaaag gatggtgcgg ttaagacaat 480  
gccattcagg gtttcacaag gagctgcagg atttgaagag acccttttca tcagggtgtca 540  
tggttatcat accttcaacc aaggcactgc aaagcagatc aagtttgagc cacgccc 597

<210> 3010  
<211> 530  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053d02d1  
  
<400> 3010

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cattattcaa caaacctata tacatatctg gaagggttatt tccgtctata ggggcgttaa 120  
tacaatagat aagagatgaa ctacccaag aagtttgggg cctggtttat tcagcaaata 180  
tctgctcaag catacagaga atccccacat aagtttcta cacaattac tgctgagttt 240  
ttccatatag cttgatcaga tatagctact caactctact ttcttctac taaatcagtt 300  
ataagtcatt cattccctct tgacatcaga ctcttcagtc cttgcaaadc tcccacggat 360  
tcttggtgta ctgtcagcaa gagccttcct gcaagcatac ttgattttcc tcccaaaatt 420  
cctctttgtc ctcttattcc tgtatcttga gagcttttga aagcgttcct cactggtgca 480  
attgctgata agcaagggcc tctcacgggg tgattggacg atgttcatgt 530

<210> 3011  
<211> 508  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053d03a1  
  
<400> 3011

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aaatgtcggg gactttgcac acaaacctag gcgacatcaa gtgtgaaatc ttttgcgacg 180  
aggccctaa aacctcgag aatttttttag cgctatgtgc aagtgggttac tatgatggga 240  
ctatatttca ccgcaacatt aagggtttta tgattcacgg tggagatcca actggaactg 300

gcaaaggggg aaccagtata tggggcaaga aatttaacga tgagataaga gaatctctga 360  
 agcacaatgc aagaggaata ttagcaatgg ccaatagtgg tccaaatact aatggaagcc 420  
 aatttttctt gacttattca aagcagtctc atttaaatgg gctatacacc gcgttctgca 480  
 aagtaattca tggatttgaa gttcttga 508

<210> 3012  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053d03d1  
 <400> 3012

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 tgggcaccag catacacagc tactaaacca attacctact aacttctcag gagctgcatg 180  
 gacttggcaa gcctttcaga tgggctggga actccagtca cggccaacc agctgcatat 240  
 tcaactggac ggctacctt gagcgcgctc tacgagatag cactactggg gatagccatg 300  
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<210> 3013  
 <211> 531  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220053d04a1  
 <400> 3013

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 aatgtcgggtg actctgcaca caaacctagg cgacatcaag tgtgaaatct ttgcgacga 180  
 ggccctaaa acctccgaga attttttagc gctatgtgca agtgggttact atgatgggac 240  
 tatatttcac cgcaacatta agggttttat gattcaaggt ggagatccaa ctggaactgg 300  
 caaaggggga accagtttat ggggcaagaa atttaacgat gagataagag aatctctgaa 360  
 gcacaatgca agaggaatat tagcaatggc caatagtggg tccaaatacta atggaagcca 420

anttttcttg acttatgcaa agcagcctca tttaaattggg ctatacaccg tgtttggcaa 480  
gtaattcatg gatttgaagt tcttgatctc atggagaaga cacaaacagg g 531

<210> 3014  
<211> 463  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053d04d1

<400> 3014

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aaaacccccca aaaggaaaaa tgggggggaaa aaatttcccg cccccctttt ttggtcccaa 180  
aagggaattt tttttgtccc tggcctttgc ggggggccgc caatttttta aatggtgaaa 240  
atgccccctt tttttccctt ttaatgactt taaaagcccc cccaaagtcc cccaagggga 300  
aatttgcttg aaattcttga aaagacaaaa agtccagggg tttttcctcc ctttttttgg 360  
ccccaaaaaa tctttttggg tttttttttt accaaggggt gattagcttg cccaagcttt 420  
tgcaatcccg gggagggttt ttgccccctt ttttttaggg gct 463

<210> 3015  
<211> 513  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053d05a1

<400> 3015

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gttccaaatc caacaaatta gagcttcggt tccgtcctga agacccttat tctcaccctg 120  
catttgggga gctttcgtcc accaactctc tgcttctcaa aatatccaag acaaaaccac 180  
caccacctgt tcatgatgcc gaagcttcta gcagctctac aaatggggag caagaccaag 240  
agggaagtct ttgtgctgat atcgctgctc gttttcccgga ggcttatttt ttttatggga 300  
tgggcgacta ccaacatgtg attccagttc atgctgatgt tgcccggagg aagaagcgga 360  
actggtcaga gctagaagaa ctgcattttg ataaaggtgg tttcatggat ctggatcacg 420

aggatgttat gattatagtg ctttcaattt tgcgtcccaa agatgtgcca gaaaatttag 480  
tcttaagacc agctaccatg tcgagttcga aaa 513

<210> 3016  
<211> 521  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220053d05d1

<400> 3016

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tacttacaat ataagtaaaa aaaaacctgt tggtaatggg attaatatc atatccataa 180  
aaactttcaa catgacacag aaaaaaaaaat gtcagcttat ccttaaactc aactatatat 240  
aaaaaaaaag gtttacatga attcaagtgc cgatggaatc agcactaacc caagtccaat 300  
aatgcttctt aacagaaaca gttcatccg caacaatttt gtcttcaaaa acccctccat 360  
actcatccac ctngtaggtg caaaaatccc cttcgggcaa acactccacg gtggcactga 420  
gcgtgtgcaa aacgtagcaa ccgggcaaac ccgggtaaga acccgaatct cgctctttaa 480  
ccctcatctc atacgaattg ggatcaatgg tgacaatgtc a 521

<210> 3017  
<211> 590  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220053d06a1

<400> 3017

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ccccagctgt taccactgtc aaccgtgccg gtgccggcat ggttgctcca ttactggcc 120  
tcaagtccat ggctggcttc cccaccagga agaccaacaa tgacattacc tccattgcta 180  
gcaacggtgg aagagtgcaa tgcatgcagg tgtggccacc agttggcaag aagaagtttg 240  
agactctttc ctacctgcca gaccttgatg atgcacaatt ggcaaaggaa gtagaatacc 300

ttcttaggaa gggatggatt ccttgcttgg aattcgagtt ggagcacggt ttcgtgtacc 360  
 gtgagcacia caggtcacca ggatactacg atggacgcta ctggaccatg tggaagctgc 420  
 ctatgtttgg ttgactgat gcttctcaag tgttgaagga gcttcaagag gctaagactg 480  
 catcnccaac ggcttcatcc gtatcatcgg attcgacaac gttcgccaag tgcagtgcac 540  
 cagcttcacg gcttacaagc cccatgcttt taagtgtgaa aaatatgcaa 590

<210> 3018  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053d07a1

<400> 3018  
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 ggggatgctt tgtagagaga gatcgctta tgatatgcta ctggtacaga tagaattacg 120  
 actctggtac caggggatga agagctggca gaaacaaacc tagaagggcg tggatggtga 180  
 gcgaagaaac tgatcttacg ctgtgaccga gactatatgt aactgaaaac ggatccacgg 240  
 tatcaacctg agccgctg 258

<210> 3019  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053d07d1

<400> 3019  
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 attataagct atttctcaag tcaccactat attcctacca tctgaaagga gatataacgg 120  
 ggaaaggaaa attcaatcca gtaaacacgt aatgagctgt ttttttctta catgcgagac 180  
 ttgcctgct gctccaaaga ggcaactcaga ggaattcctt tggcagctct tgcagccaag 240  
 taggcacaag gcttgaagaa ttccccatac aactctgacc atttctccaa tcttgaatat 300  
 atgtacttgg atccaagaga atcagcccag aatatgatgc ctcccctgta agggggaaaa 360  
 cccatgcca tgatagcaga aatatcaaga tctgctgctt tgactgcgat accttcatca 420

aggacccgac aagcctcatt caccacagga aagaatatca tctctatgat atc 473

<210> 3020  
<211> 491  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220053d08a1  
  
<400> 3020

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ccctcgcat cctcgactct cttcttcttg gagagtggga agatcgcatg cagagaggac 120  
tttttcgcta tgatgttacc gcctgtgaaa ccaaggtgat tcttggtgaa tatggtttcg 180  
ttgcccagct taacgagggg cgtcacctca agaagaggcc aactgagttc cgagttgata 240  
aggtccttca accctttgat gaaaacaaat tcaactttac caaagtcggg caagaagagg 300  
tcctcttcca atttgaagct agcgaggatg gacaagtcca gttctttcca aatgctccag 360  
ttgatgttga caattctccc agctttgttg ccatcaatgt cagtcctatt gagtatgggc 420  
atgttttgct gattccgcgc atatttgagt gtttgctca naggattgac cgtgagagct 480  
ctctccttgc a 491

<210> 3021  
<211> 476  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053d08d1  
  
<400> 3021

caaaaaacta tattgatgtt ttattgaaat atccatcata caagcactac ccaagcagaa 60  
atcaacagta tgcgtagacg ccacagcata cttttaaaca tttcccatca tgacacctta 120  
aaatcacaag agaacattag aaatttcgaa tcatgaaggt tgaactatga attcttaaca 180  
tattatctag ctaaaattaa acaggttttc acatattata gaccgaagga acaatttggt 240  
ggccaagga agaaagcaca tgcaagaggg gtctggagac aatgatata gtgatagaac 300  
catccagcat tcatcgccga aaagcattgc tttcaccacc agatcttcct tgagaataat 360

atgtccgacg acggacactc tcggctattg atgcactccc cccttcagct gcaccatata 420  
cacttttctg agcagtatcc aagaaattct tgccaccggc attatcattc tggatt 476

<210> 3022  
<211> 559  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053d09a1

<400> 3022

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ggacttgctc ctgaaattcc agaggacctg taccatttga ttaagaaggc agtttcaatt 120  
aggaagcatc ttgagaggaa caggaaggac aaggactcca agttcagggt gattcttggt 180  
gagagcagaa tccaccgact tgctcgctat tacaagaaga ctaagaagct cccaccagtc 240  
tggaagtacg aatcaacaac tgctagcact ctgggttgctt agagaatgta tcaactttca 300  
tggtgtttgc taccgtgcag tcgccgttga gctagcaatt tgcgatatca ttttgatggt 360  
tatttgaagg ctggataggt tatgtggctt aattttgtta agaacctatg gtttgactgg 420  
gaaagataat ttaactagtt aagtcaattt atcaatgtgg tgttcttttt ttttagccgg 480  
tggaaggtgt cttttaaaga gatgactatg tggtttggct ttattttcaa gtaatatata 540  
tgcttagaag atttgaagg 559

<210> 3023  
<211> 580  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053d09d1

<400> 3023

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gtaattgagt tctatcaatt acatctgaat caaaaaaatg aaaattaggg taaaaatta 120  
acagaaggaa aatgatccca taacatgggc agatgagaaa tcttgcttac taaatgtaaa 180  
tctgatgccg cccctaaacc ttaatgatac aattctgcta caaacctta tctttccttc 240  
tcccctaact gatTTTTTct tcttttcttt tctgttctt cgggcatata cagatacatc 300

gatgagtaaa atatcccagt gttggtggac ttatactgt gtcaaaaaac acatccttgg 360  
 caagttcaat atatcacaac acgaagtagg cctggctgag tttccgtgaa gtcaatgccc 420  
 tcttcaagat gaaaacgctg tgcagctatt ggaagtcttg caggagtgcg agaacccttg 480  
 gtatgatgac ctgtgcccac aagaatataa acctgcagac gctgctcggc agctatggca 540  
 gtgcttttca gcacactcaa ctcatgtttc agcacatgaa 580

<210> 3024  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053d10a1

<400> 3024

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 ttcattgttat cgatttcgat attgggtttg gaggtcagtg gtcattcttt atgcaagaga 120  
 ttgccttgag aagtagtggt gcaccttcac tcaaagtcac tgccattgtg tcaccctcca 180  
 cttgtgatga ggttgagctc aatttcacta gagagaattt gattcaatac gcgaaagaca 240  
 tcaatgtgtc atttgaattc aatgttttga gcattgaatc cttgaactct ctttctgtc 300  
 cactgcttgg taaattcttt gataatgagg caattgtggt gaatatgcca gtctcaagtt 360  
 tcacaaacta tccatcattg ttcccttccg ttcttcactt tgtgaagcaa ctcaggccaa 420  
 aagttgtggt cactttggac aagaattgtg atcaaatgga tgtaccactt cctaccaacg 480  
 tagtccatgt tctccaatgt tattcggccc tgcttgaatc gttggatg 528

<210> 3025  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053d10d1

<400> 3025

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 gatgcacccc tagttctaatt ttgccaggag ctaatggctt tacaatgatt agtatccata 120  
 ccatctccac taaaaccaag tgtatgtttg gattaccgtt ccaatccttc caaagttatt 180

aactcaaaag taacaaaagc atgcttctcc ctacttactt tgaatataga ttcaccacct 240  
gcaaacggta atccaaacat tatgagagct tcattttaga actgatgcag aattcccgc 300  
gacaatgtgg tttgagagct taccatcaga tccccaaat gctgcacact ttaaattcatc 360  
ctgaaccatt aatctggaga actcctcatg gttataactc attatgctct ttccaccag 420  
ttctttgggc agattttcct catcagaata agacttcatg acctgcacac tatc 474

<210> 3026  
<211> 532  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053d11a1

<400> 3026

gcagcacatg caaagtcatt cacttgagga aagtaatcta taagtttcta aaatcattgg 60  
aaaattatgg gttaatagtg tgaagcattg gatcccagag aaagatctcc aaaatgcgcg 120  
aggcagcata tatggacttg atggattagt atcaggtagg gtgacctcct gtgaagctcc 180  
atcaaggatg cctcggtcac gctctgtcca aaattgaggt tggctgtttg ttcatttgtg 240  
ttttgttctt gtcagagcat catgatactt ttatgtgtgt gttttttggg ttttagtttc 300  
ttgctttaac agtattttgt ggtgggtcca gaggccattt gtgtgtgctg tcgatgattg 360  
tcaggcaagt tacagaagaa aggaccacct gactcggcac cttctacagc atgaagggaa 420  
gaattttaag tgccctgttg agaattgcaa cagtgaagttc tcttttgcaa gcaatatgaa 480  
aagacatact gaggagattc atgatgacag ttctaccact accagtagtg ac 532

<210> 3027  
<211> 443  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053d11d1

<400> 3027

aaaggaaaag gcaccaaatt caatttatgt ggacacttaa gcggaaaacg cttgaggacg 60  
acagaccaat atgaaaaata taggaaaatc ggggggaact tggaatcctc tttttgcacc 120  
ttttactttc gagaattata agaattgtac acgcgggtcc gatcacatct tctatctctc 180

ggatcagcac aaccttgagg aacagaaata ttcacttgcc aagtttgctt tggctccaag 240  
tcaagattgg gagaaagttc ccctgccaat agcatcctcg tttgcatttt caagtgcaga 300  
caagttcaag ttctcgccag ccattggac tctatggaca ttctctagtt ggtggacaag 360  
gatgttacca tacgtcaaga gcttctccat agtcacggg ggctgctcaa aggacggagg 420  
tccatctttc gagttcacia gct 443

<210> 3028  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220053d12a1

<400> 3028

gtcttgaaat caagtatcaa tataatggac caaaggcttc cattgttggg aagatatgtg 60  
aattgcaatg caaaggcttg ggtccaaccg gagtgcaaag agatgcaagg aaaaatggga 120  
taacatcaac aatttcttta agaaagttag ggagagtagc aaagaaaggc gtgaagatag 180  
caagacatgt ncctatttcc acgagcttga agctctatac aaagaaaagg gaaaatctcn 240  
nancctcttt ggcatgtttc agaatatgac gccaaatgat acgattatga tgtagtcatt 300  
tgatggtgca tccggagcaa caatagatgt ctccacctt 339

<210> 3029  
<211> 355  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053d12d1

<400> 3029

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tttttttttt tttttttttt tttttaaccc cccgccccta aaatttttggg ttccggggcc 120  
caaaattttt ttttttttcc aacôtgggcg ggggggggga aaaaaaaccc caaaaacttt 180  
tattttgcct ccaacaaatg ttccaaaaaa aattttttgt aacccccccc taaagcaggg 240  
gggaaaaaca aataaaaaaa aagggccccc cctctaaaaa gggggcccaa aaacaaaaaa 300  
aaaggggccc gaaaaaagat ttttgttttt ttccccgcc aaatgttttg gaact 355

<210> 3030  
<211> 518  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220053e01a1

<400> 3030

cttcgaagga agatatccgt tggaaaccaa aaccaaagc aagatcaaga tgagaaatgg 60  
gtagagaggg atttcttgag tttgagttag acaagggaga attcttcaaa gagatccatg 120  
gaggaagagt gtgaaagga gacgaatggt ggcagcaaga tgcagaagct tgagactctt 180  
agcctctctc ttgctttgcc tgatgtgtcg ctctctctca cagcctccaa cgctttgcaa 240  
aatggcgacc aactcggttag gccaaagcct agtaagccat ccacaaggac cacaactact 300  
atcaattcat gttcaaata ttacacagca gcttctgtgt ctactctta ctctcacct 360  
ttctcacaca accaaagttg ctactcacc cgaaattcga ccgagaattt cgagtactca 420  
cacagcaaag atgatcaaat ctggcattgt ggggaggcga ctaatggctc ggttcatagc 480  
aggttcaagc cattggagat gggctgcttt ggtcatca 518

<210> 3031  
<211> 428  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220053e01d1

<400> 3031

gctgaaatgt aatttcctcc ttcacaacaa ataatatcgt taggttacag tttagaaagc 60  
accacatgc actcatttca aacatatatc ctacatctaa ctgctacaac tcagtaaaca 120  
atattagata acaccaaga gaaacaagga aagcctaaaa agtagatttc ctaacactaa 180  
taacacctaa cacaagcga acaatttctc aagtcaaac caacctgaca ctcatccatc 240  
ccactataag tgtcatgtta attgtcagca tcagtcaagc atgagcccaa aaggggtttg 300  
aactgtaga acaccaata cttggcaggg agcatgttta gcatgcaact ccagcatctg 360  
catggctggg gttggactca ttttcaggga aagaggctga atcatcagaa gctgagttcc 420  
cagagctt 428

<210> 3032  
 <211> 550  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053e02a1

<400> 3032

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 tgaggcagca gcagaacaga ctcagactca caagagtact tacattgtac acgtggcgaa 120  
 atcggagatg cccgagagct tcgagcacca cgctgcgtgg tatgagtcgt cactgaagac 180  
 cgtgtctgac tcggcggaga tgatttacac ctacgacaac gccattcacg gctacgcgac 240  
 gagattaacc gctgaggaag cgcgtttgct ccagcgccaa acggggattc tggctgtttt 300  
 gccggagacg aggtacgagc ttttcacgac gcgaacgcct ttgcttctcg gacttgacaa 360  
 gagcgccgac ttgttccccg agtcgagttc gggaagtgc gtcacgtcg gagtcctcga 420  
 caccggcgtc tggccggaga gcaagagctt cgacgacacc ggactcggac ccgatccgag 480  
 cacgtggaaa ggcgcggtgcg agacgggaac gaatttcacc gcgtcgaact gcaacagaaa 540  
 gttgatcgga 550

<210> 3033  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053e02d1

<400> 3033

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 cagaagccga ggggcacgac gcccagcgc cacacacggg gggcaggacg aagaggccca 120  
 cggggggggg ggggggaaaa aaggacggga ggggcggggg gggggggggg gggggaacgc 180  
 ggggggaggg ggcacggggg gggggggacc aagcgcgggg gggcgcccgg gagcgggaac 240  
 gaccgggggc ccgcaggggg gggggaaaaa gacacccggg ggggcaaggg gggggggggc 300  
 gcaacagggg cggccggcgg ggagggcacc ccggggggcg caggggacga ggccccgggg 360  
 caaccggggg gggggcaccc cgggg 385

<210> 3034  
<211> 582  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053e03a1

<400> 3034

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cgccgacgac gacgcctcct tccgcctcgt cgacggaaag cccccgccgc gccccaaatt 120  
cggccccaag tggcgcttcc agcagcagcg ccagctccct cagcggcgcg acgaggaagt 180  
cgaggccaag aagcgcgagc aggagaagga acgagcccg cagagaccgtc tctaccacat 240  
gaaccgtca aaccctaacc aacagcgccg cgaagccgcc gtcttcaa at cctccgtgga 300  
tatccaaccc gagtggaaca tgcacgacca gatccccctc agcaccttct ccaagctctc 360  
cttcaccgtt cccgaacccg aagacctcct cctctgcggc gccctcgagt attacgaccg 420  
cacctacgat cggatcactc ccaaaaacga acgccgcctc gaacgcttca agaatcgga 480  
cttcttcaaa gtcaccacca ccgacgaccc cgtcattcgc agactcgtca acgaggacca 540  
agccaccgtt ttcgccaccg acacgattct ctccactctc at 582

<210> 3035  
<211> 358  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053e03d1

<400> 3035

atcaaagac aacccaccg tttcaacggt gttcacaatc acatcttcta aaaggagcta 60  
cagggcaaag aatgcaagat agccatacaa aagtattcag aggaagacaa actgttagtc 120  
agcactagaa aaatacacat tttatatttat ttacaaacaa acctcaaaag ctgtacacaa 180  
caaatgacct tatcaatatt tcatttggtg accaaaattg ctaaaacttag caaccaagaa 240  
aaagaagatt ctaaaactct actcatacc tttcttcaa gttaatcacc tagctggtac 300  
aacagggtct tctctgcacc agctaggtga ttaacttgaa gaaaactcta ctcatacc 358

<210> 3036  
<211> 513  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053e04a1

<400> 3036

ctttgtgggt catactgatt ataaatacct gaggtaccaa gtaattgata cgccagggat 60  
tttggacagg ccttttgaag atcgtaatat tattgagatg tgcagtatca ctgctctagc 120  
acatttgaga gctgcaatct tgtttttctt ggacgtctct ggatcttgtg gttacagtat 180  
tgctcagcag gcagcgctgt ttcacagcat taagtctttg tttatgaaca agccgttgat 240  
tatagtctgc aacaagactg acttgcagcc actggagggg atatcagagg aagacatgaa 300  
gttgggtcaat gagatgaaag ctgaagcctt gaagactcta gttgggtcaag gaggtgagcc 360  
tacagacaat aacagtgtat tgttgaccat gagcactttg acagaagaag gggtaattgc 420  
tgtaaaaaat gcagcatgtg agaggttatt ggatcagagg gtggagataa agatgaagtc 480  
aaagaacatt aacgactgct tgatagggtt atg 513

<210> 3037  
<211> 482  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053e04d1

<400> 3037

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tttcaaaaaa ccatttttac ttactattgg aagtaaaaaa attcttaccg cttcagacgt 120  
acgaaaacca cggcatcacc gaaggcttta caaacgtgtc gaggtaatgc ttctttgtat 180  
cggatgcgct catcgatgtt tccatggcta gcatggcttg gtggaattgg gtgatggcat 240  
cggtcaggat ggcctcggtg gagaatggag ccgttgtgta gccattcatc aaggactggg 300  
acagcgggat cgggcggtag aattgtacta ccgtggagga cagcaacggg aacaggtcgg 360  
acggaatgac gtattcgaac ggggtgacgt tcaccccttt tttagtcgga agtggtgctg 420  
tataaagtgc tccagtacgg aacggtgccg cttgactgtg ccacgacact cttccgttca 480  
tg 482

<210> 3038  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220053e05a1  
  
 <400> 3038

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 atatgctgga ctgatgggta ttcgtgcata tcatttggca agaggagacc accatcgcaa 120  
 tgtctgcatt ataccgtct cagcacatgg taaaaatcct gccagtgtg ctatgtgtgc 180  
 aatgaaaatt gtatctgttg gaactgatgc caagggaac atcaatattg aagagttgag 240  
 gaaggctgct gaaacacata aggacaacct agctgctctt atggtaacat atccttcaac 300  
 ccatgggtgtt tatgaagaag gtattgatga gatatgcaag gttattcatg ataacggagg 360  
 tcaagtatat atggatggtg ctaacatgaa tgcacagggtg ggacttacia gcccaagttg 420  
 gattggagca gatgtttgcc atctgaatct ccataagaca ttttgcatte ctcattggaag 480  
 aagtggccct ggcattg 496

<210> 3039  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220053e05d1  
  
 <400> 3039

gaagaacaag caaatattgc tttattaagc attgctagaa agaaatatct tatggagatg 60  
 tctttttgaa caccatatga ccagaatcat ccacatcaaa caggcgtcca acaaattcat 120  
 tccaattttg tgctcggttt ttgtgagaca aggaggaacc taggacactt gatcttccag 180  
 aatcctcccc aacatcaatt tgattaaatg ttccatataa tgaagggtgaa tatgcttgtg 240  
 gaatatccaa agcaactgcc ctcttaagggt ctgcatggta ctcttcaactg tgttctcggg 300  
 ctatagattc atgcctctcc atcttctgct cttctgggat ctccatatgc tgctcatctt 360  
 tatctcgcat taaatcgaga gcccgctcggg attctctctc tatccaaatg atggcatggt 420  
 cagaagttgc attgcatgaa agaactaaat gctcaaacct cccatcacag gtact 475

<210> 3040  
<211> 524  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053e06a1

<400> 3040

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gaatgctctc aagaaagaaa aagaagaaac tggtttgcag gttgatcgtg tagatgctct 120  
tccaatcaag acattggatg gaaagatcca ttaccagaca gctacgaaga cagtattgga 180  
aaatgatcca agtgaagaga gaactggaga gaatgtcaaa aaagataaag gtatgggtcaa 240  
gctaactaag gctgaaaaga gagccaagct taagaaaatg agaaaagacg cacaacaaca 300  
agggaaagag gtggctaaag cagaagtgga agagacacca caagcagcag tattggctga 360  
ggtaaaggaa gatcttacag ctgaggaggc atttgaaagt aagaagcata aacttgcaga 420  
attggggaat gccttgctta cagatccaga gtccaatatt aaaattttga ggagatggtg 480  
cagatatcta aagataatga tgatacccat tgtaaacttg gact 524

<210> 3041  
<211> 408  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053e06d1

<400> 3041

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catggaataa aaagggaaga gactccttag tttaaaaatc taggccatgg tcacgggctg 120  
cttcaaaagt gcttgaacac ggccatggta tgggtatcca cctcgatcaa aggcaacctt 180  
tgggatcccc ttttccaaac aggattttgc aatgatctca ccctccttt ttggtactta 240  
aactggtggg cccgcggagt tatttaactc attaacaacc gttttttggt ttggttacac 300  
cgaaacaagc gtgcgccttg ggggtgtcatc aatcacctgc acagaaagat gctttgttta 360  
ccggaacacg gacagccttg gccttttggg cgtcccttca accttttt 408

<210> 3042  
<211> 542  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053e07a1

<400> 3042

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cattcttaat cgttgggaaa aatgttcacg gagaatttta aggtagagag tcctaagtgt 120  
aagtacaccg agactgagat tcagtcctgt tacaactacg aaaccaccga acttggtcac 180  
gagaacagga atggcaccta tcagtggtt gtcaaaccga aatccgtcaa ctaccaattt 240  
aaaaccaaca cccatgttcc aaaattgggg gtgatgcttg tgggttgggg tggaaacaac 300  
ggctctaccc tcaccggtgg tgttattgct aacagagagg gcatttcacg ggctacaaag 360  
gacaagattc aacaagccaa ttactttggc tccctcacc aagcctcagc tattcgagtt 420  
ggatccttcc agggagagga aatctatgcc ccattcaaga gtctgcttcc aatgggtaat 480  
cctgacgaca ttgtgtttgg gggatgggat atcagcaaca tgaacctggc tgatgccatg 540  
gc 542

<210> 3043  
<211> 516  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053e07d1

<400> 3043

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acatgattat acaaaggctg tgtagcttaa cccaatatgc tagctacac accttctggc 120  
ggtaaattag tgtaacaatg aaatgggtca ctcaattcca tctcttggca tttctcacgc 180  
ctttggactt ctgttttgct gcctgaaagg cctgcatctt ttgtttcttc cgtgcctctt 240  
tctcagcctt ggacatctta tatttggtt tcactttagg agctttgcta tcaagctcaa 300  
cctcgcgttc aagttctgtt tacctagcat caaaattctt ctctaaataa taagtcgaat 360  
cacctgcata atcctgaatg gcgccatctt taagtcctat cactctatta actatttgct 420  
ttataaagta tcgggtcatga gatactgtga taacagtgcc ctggtattca ttaattgctt 480

gctcgagcat ttcttttagaa ggtgtatcca agtgat

516

<210> 3044

<211> 547

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053e08a1

<400> 3044

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gagcaagatt ggggagaccc ttcatgtggg agggcacaag aaggaggagg agcataaggg 120  
tgagcaccat gctggagaat acaaagggga gcaccatggt gaacacagta gtgagtacaa 180  
aggagagcat catggtgaac acaaagctgg agagtaccat ggtgagcaca agccagagca 240  
caaagagggg ttcttagaca aagtcaagga caagatccat ggtgagggcg gcgccgccga 300  
cggcgagaag aagaagaagg agaagaagaa gaaggagcat ggccatgagc atggccatga 360  
cagcagcagc agcagtgaca gtgattaaac tgctgcatca cctatatatt taaaaggttt 420  
atgggaccat agtagcgagg gctgggcctt aattactctc tatctctctc tctatgtgta 480  
tatctctctc tcttttctct ttggccctat cttgtgatct atttatgagt gagaaaaaca 540  
taagtga 547

<210> 3045

<211> 421

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053e08d1

<400> 3045

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atgcgcatgc ggtatcccta acaattgtac aactaacta ttgacatgga cgggtagatg 120  
cccacaatag acatgtggca aattacaatt gagttcgtga tgtccttaca tttctttgcc 180  
atgcgtgaca tccgttttca aacagaaagg ggaagaatgg aaaaatatta ccttacgaaa 240  
tattaacaaa taaaaataaa aattgggcag ttctgcagga aatgtctttc ttgaatatac 300  
gggagcccat tcaatgacta ctacatgcag atgcaataaa acagtctctt ctaacagtgt 360

actactcaac tccggcatgc agaagatact tgtgaatcaa aatcttcttc ccaccacgtg 420

c 421

<210> 3046

<211> 579

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053e09a1

<400> 3046

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tgggaacttc agtggagaat cgtccatcaa atgagaccct tgcttctatc tatgttgaag 120

ccattgaggt gggttaccgt cattttgaca ctgctgcagt gtatggaaca gaggaagcca 180

taggcctagc cgtggccaaa gccatagaca aaggccttat aaagagtaga gatgaagttt 240

tcatcacttc aaagccttgg aacacagatg cacaccgtga ccttattgtc ccagctctta 300

agaccacatt aaagaagctg gggacggagt atgtggatct ttatctgatt cattggccag 360

tgaggctgag acatgatctt gaaaatccta ctgtttttac caaggaagat gtgctgcctt 420

ttgatataga agggacatgg aaagctatgg aagagtgtta caagttggga atagcaaagt 480

ccattggcat atgcaattat ggtatcaaaa aactcactaa actcttggaa atagccacca 540

ttctctctgc agtcattagg tggaaatgaa cccatcttg 579

<210> 3047

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053e09d1

<400> 3047

gtatattctt tttttttgat ttctacttca taggatctca tgtctcaatt aagaggagtc 60

atggaaagaa ctggttcaaa atctcgatca attccttttt caaatcctgc ggcagctgcg 120

cgagctcttc ccgcgtgccca taaatggcct acaaatagga agaatcctag aacaaaatga 180

gaagtagcta accaacttct aggagaaaca taattgactg cattaatctc tgtagctacg 240

ccaccacgg aatttaagga acctaaagga gcatgagtca tatattccgc agaacggcgt 300

tcttgccaag gctgtatatac ttttttcagt ctactcaagt ctaaaccatt cggacccctt 360  
agaggttcta accaaggagc acgcaaattcc caaaaacgca tagtttctcc cccaaaaata 420  
acttctcctg tcggggaacg cattagatat ttacctaaac ctgtaggtcc ttgagcagat 480  
cctacattag cccaagacg ttggtctcta actagaaaag taaatg 526

<210> 3048  
<211> 579  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220053e10a1

<400> 3048  
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ctcaactgtt tccaaatgga atgcccggtc ctttcgtgaa cgagatgttt gtgttgGCCA 120  
gagacggcgt cgaattccag gtcgataaga ttctgcctc tggcaatcat gggggtaatc 180  
tcaaaacaaa gggaatcgtg tatttgcga atattcggat ggtcttcgtt gctaaaagtc 240  
cagttggaca cttcactgct tttgatatgc ctttgcttta catccatggt gaaaagttta 300  
accagccaat atttactgc aacaatctct ctggacatgt tgaacctgtg gtcccaaattg 360  
accaacacag agctctttac tcaacacact catttaagat cttattcaaa gagggaggct 420  
gtggaacctt cattcccctt ttcttcaatt tgattacttc agtgaggcag aattatcaac 480  
acactaattt gcagacacaa aattatgtgg atccttngca ggcattctcaa actccagctg 540  
atgagatgat gagacatgcg ttgtttgata ctaatgatc 579

<210> 3049  
<211> 484  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220053e10d1

<400> 3049  
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gattaaatcc ttctattaag tatggaaaac aaaagaaagt tgcattgtaat cccaaattaa 120

tagaacctta ttttgcata cacaacaaac aaaggcaggg gattgagctg agttaactag 180  
 caattcttga attgagaaaa ccatatatat atatataaa tgtgggtgta tcgctattct 240  
 ttagcaactc aatcattccc ttccctttga tttgagttca ctcccagtct tcgtcactca 300  
 attcatcatt ttcttctttg ggagggtctaa caaccaataa cacagttcct aaactctgag 360  
 tgaaaccctt ttcttcaat cccgaacccc tctcgacctt gaaaccctca ccatcagcat 420  
 tcacaagata aaacccatca tcggcaccca cctctttttt actcctgtca gccaccacca 480  
 atat 484

<210> 3050  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053e11a1  
 <400> 3050

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 .cgcttgggt cagcccgatt ccatttcga aggttttgaa gccgaagacg atgacgacct 120  
 cgaagactct tccatcgatc ccgctctctc ccgatcaccg cccctctccg accctactcc 180  
 cctcaccacc gatccacccc cccaacctcc tgcttcagat ctccccaaat cccctcccgc 240  
 caccaccttc gatttctggg acgacgaaga attcgaaggc gtccccgtcg aacacccccgc 300  
 ccccgagcct tcttcgatc ccaaattccc cgaaaactcc accaccactc aaacccctcc 360  
 aaccctcacc cctccgcgct ccttcaccgt agagatcgtc tgcggaagct ttcttattat 420  
 gttcgcaatc aactacttca ctgggaagcg cgagaacgag aacatcgcg tatcgtgggc 480  
 ggcgagttc gcggcgaagg attcgatctt cgag 514

<210> 3051  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053e11d1  
 <400> 3051

atccagcagg ccactttata atagttttga cagtaagtac attcacttcc gacataatag 60

tagatgaaat gctagctcgt acattacaaa gtttctctcg atatatctct ataatagaga 120  
 tggttattgc atttgttaga cacttcactt ggaataaacg ggcatttttt gccctacga 180  
 ttaagttgta aattaaagtt ttttaaccac ccttctctct ctctctctct ctgtatatat 240  
 atatatatat atgcagattc atcctcta attgcttagct tcattccatt tctcaatggt 300  
 tctgagtcgt gcgtacatct tgcgaaattcg gtttagtttt tgagactctt gagcaatcaa 360  
 attagccgct gaagggctct catctaagac cacctcgtaa ccgtctcgat aagaatccat 420  
 tccttgagcc ataagttgcc aaaacaggcc accaaca 457

<210> 3052  
 <211> 550  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053e12a1

<400> 3052

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 ttgatacctc tgattctttc tttgcttaga attccacaga atatggagac tgttcttttc 120  
 aatcactccc cacctttgga attcaagggt ttgagcaagg aggaggaaga ctcatgcta 180  
 gggcaagtgg aaatatggag gtacatgaca tgcttcacgg actccgtggc cttgaaagct 240  
 gtcatagagc ttcgtatagc ggacatacta gaccgttatg gtaaaccact atccttgtcg 300  
 caaattgtgg agaacataga agacgcaccc tcccagatg cctctcttct ctagagagtc 360  
 ctgagagtga tgggtgcgcag aaagatcttc agtgcacaag aatcagagac aggagaaacc 420  
 ctcttcggct tgacacgagc ctggaagtgg atccttcgcy acacgaaaat gaccctagca 480  
 cccatgttgc tgctggagaa ccaccaatt cacctgaacc ctgcgcacta catcagtgag 540  
 attattagag 550

<210> 3053  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053e12d1

<400> 3053

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 tataacaatat atatacccca tccccaaactt tatgaatcct ataattaata ttaagctaac 120  
 ttaaattctct ggaagtatat ttctatatgc tactattcaa tgtttacagg gagctagcat 180  
 cccctcccat gccaggaatt ccagtatacc agaatcacgg tacaatatTTT cataattagt 240  
 gactgcatgc atgtgtatat atatgtaaat gaaaataaca taaaccctct ccttttcttt 300  
 tcttggtgct gctagcgaag ttaattagcc aagtctagag aaacactcat cagaactcta 360  
 agatttctct cataaattat ccaatattgt tttagctagc tagctagcca tcagttctta 420  
 cttcctaggg caggaaatct ggtaataact gatgagcaac aaacctcttt ctgttttgaa 480  
 tatcaatgct ctcataagtg gttcctgagt gagaagaagg tggagcagtg ttgatagtag 540  
 aaaact 546

<210> 3054  
 <211> 517  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053f01a1  
 <400> 3054

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 ctaaacctcg gagattaaat ggcaccacaca acccttctta tcaatacttc aatttggatg 180  
 ccgttgactg gcaagctgac atagaaaaat gcttgacttg ggaagctcac agccgacttt 240  
 caaacggatt gtctattaac tttcttgata tcgctgcaa agagttaggc tgtactatTTT 300  
 ccatgtgaaa tgaaatcatc catcttagtc tgtgacaatt ttttgctaga cttatagaaa 360  
 aagaaaaaga aaacagaagt tattgatatg cttatggaac taacgggttt gcaaataagc 420  
 ataattctgc tagtcctgtt aaaaagagct gcaatcataa ttctagtagt tttatagaaa 480  
 gctcattttg catcatgcat gtactctagc taaacta 517

<210> 3055  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053f01d1

<400> 3055

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tttttttttt ttcttttttat ttatgtttta tttttcttta aaaaaaccca aaaacctaga 120  
aaggggacgg ggcaaccag ggaaccttta caacaaaaaa aaaaaggggg ccccgtttcc 180  
taaaaagggg acacccccga gagggaaaag ggggcccaaa aacttgaaaa gaatcatttt 240  
tgccccctaa aggggggggaa aaaaacctga aaaaaaaaaa atgccaaggc accggggggc 300  
ccccttgac agggcccccc caaatgggg gcccgaaaag ttccccaatg ggtgacaaca 360  
ctcccgatt tggaaccac ccatttttcc cccggggggg aaaaagggg tttaggaaac 420  
ccacccaaag aggcagtttt ttatcccca attttgag 458

<210> 3056

<211> 466

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053f02a1

<400> 3056

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ttaccaagac acattgaacg tccacgcgaa ccgtgaattc taccgcaact gcgaaatctc 120  
cggcaccata gactttatct ggggagcata tgcaacctta attcagaact caagagtcac 180  
agtaaggaag ccagactcac accaattcaa cacagtgacc gcaaattggaa ccaagcatat 240  
gaacatggcc acaggaattg tgctccagaa ctgctagatc ttgccggagc aggctctggt 300  
ccctgcaagg tgccaaacga catcgtactt ggggaggccg tggaaggagt ccgcgagaac 360  
agtggttatg gaatcgaaca ttgtcgactg catttagccc gaagggtgga ccccttgggg 420  
tggaacctg tatctcgata cgtagtacta tgctgagtat gcttac 466

<210> 3057

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053f02d1

<400> 3057

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atcgctcgaa agcacatata actattatac aacaaaggaa aaccgggctg gtctagccaa 120  
agatgcgtac acacctctta tctttcaagc ggtgtagcat gatcaggaat tatttttggg 180  
atacaacctc tctgaactca tcgtctctca gtgataatat cggagaggac caataccgat 240  
gccttccage cccccgactt tctagctttg tcttgatccc cccaagtata actcgggtgtt 300  
gctgatgccg aatgggtatc ccgttgata tcaaaatgca atgctcaatc aatcggatca 360  
atctttttcc cacaagtga acttcggctt gttcgttcaa cttccacctc acgatcaatc 420  
cttacgtcgc gtctatttct ttccgagaag accgccgaca atggggatgt tgctgaca 478

<210> 3058

<211> 554

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053f03a1

<400> 3058

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tctgatgatc gtcgggaccg tcctatcgga aaccgccatg gccgacgccg actgcgccgg 180  
cgggaaaacc atactgcacc tggagcccaa ctacttctac ggcagccact tggcttgtgt 240  
ctgcctccac gatctcacta ggtacctcac ttagccgcac tccttgcctt gcgccgcaac 300  
cgacgacgca tctctcgact ctgacgacat cgggtgctgc gacctcgtac accaaccctt 360  
ctgcaccgac gcggggaccg cgacctacga tgaatgcgcg gttgttagcg aaaattcgcg 420  
aaaattcaac atcgatttgg gaggtcccag ggcgctgctt tgcgcggaca agacgatcga 480  
tctgctgatg aaatctggcg ctgtgcagta tgtggagtga aaggaattga caagagcttc 540  
gctatgaagc gacg 554

<210> 3059

<211> 500

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053f03d1

<400> 3059

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acaacttttg acaataatcc attgtatact agacacctag caacagagca agccccaag 120  
atatactagt tgacaagaat ttgttttcgg aaccactct cgtccccac aaaaaacaaa 180  
taatgtgcag gcaaggaacg gaattgcata tgacacaatg atctaactat cagcggctct 240  
gaaaatagtg agcagagaca ggaagagggtt aatgatgtcc agatacaagg agatcgaagc 300  
ccaaatgtat tcatcgtagc agtatctctt gatcagggtt tctgtgtcat agatgatgta 360  
gccgcaaaat ataatggctg ccaagcaacc atagatcatc acggacaatt taccagtggt 420  
aaacagaacc tgaatcagag caagaccat aagaactagc actgcaccaa acaagaagggt 480  
tccaaggaag ttgaaatcat 500

<210> 3060

<211> 541

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053f04a1

<400> 3060

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ttcggaccac ttccgaagta gttccttaac cccgattagt catttgcac ctccaatttt 180  
gatggaatat gtttaatacta tgatttcgtt ctcttaatgc tttgaagttt atctagggtt 240  
tgctattgca atttggatc agaagattga ttaaccttta tctatggccc gagcacgcaa 300  
tctaattgtc gctgtgggtt tagttgctt cgctgcagca ggcatgacat ttcccttcta 360  
catggcttca tcaaggaaac ctgttattga cccaacaaag ccacttccac cacaagcaac 420  
ttttctaggg ccttacatta acacagggtc gcgtgatgtt ggtccccaga agaaatgaag 480  
caagttcagt tatttgatca agctcatata tgtgtcatt gtctgaggtt aaatttttat 540  
a 541

<210> 3061

<211> 547  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220053f04d1

<400> 3061

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 actccaagga acatatcaag ggtacaagta caacacacaa gaatcctgaa gtgaccccag 180  
 ttttgctact tgctacagtt gatcaattcc atcatttgc ctccaagaaa aatatcaaag 240  
 tgtacaaaac ctaagaatcc tgaactgacc ctatctttgc taatttctag ttgatcaatt 300  
 caatcattta cattccaatc aaaatcaaga tgtagcttga tggatactgc tagaccttgg 360  
 atagaagcta cagaacaaat aattcaagta caaaagcata tatatacgta agatcacagg 420  
 agccaaaatt gtcagatatt cttacctctt ttatcttaaa gggttgcaca attacaggaa 480  
 attgatnttt tcttattttt ggtttagcta ccaggaagga gtcacaata acattactta 540  
 accaaac 547

<210> 3062  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053f05a1

<400> 3062

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 cgaaacgcaa acatgggtct cgttctcctt ttccttatgg caatcttctc cgccatgacc 180  
 actccgtcaa cctccgcgat cgacaccttc atcttcggcg gctgctcca ggccaagtgc 240  
 acgcctgggtt ccgcctacga aaacaccgtc aactccctcc taacctcgct ggtcaactct 300  
 gcggccttcg ccaactacaa caacttcacc gttccagcct cttccgacac cgtctacggc 360  
 ctcttccagt gccgtggcga cctccccaac gaccagtgtc cgcgctgcgt ctgcggtgcg 420  
 gtcacccagc tcggca 436

<210> 3063  
<211> 419  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053f05d1

<400> 3063

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tttgtggatt ttagcataac acaatcgatt caaaacgaca tgtgagtctt ccactcattt 180  
tcttgcttct tottaagcca taagtttcct catactacaa gatcataatg gttctcaccg 240  
ctgtataata gccccacatc tttctgttta tgacccttca taaagcgact aacatactct 300  
gctgtgggaa tgaaaccata tgcaaaacca ccacttttat gctgatgctc tggatgtac 360  
acaatgattg gctgcttaca taactttgac tgtaccaata gatattattc tgctcccca 419

<210> 3064  
<211> 547  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053f06a1

<400> 3064

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cggcaacagc aggtgaagaa gagccgaaga ggaccgcggt cgcgaagctc gcagtatcgc 120  
ggcggttactt tctatcgag aaccggaaga tgggaatcgc acatttgga ctgtgggaaa 180  
caagtgtact tgggtggatt tgacaccgag catgttgagg caagggctta tgatcgagct 240  
gcatcaagt tccgtggcgt tgatgaggat atcaatttta acgttagcga ttacgatgaa 300  
gatataaagc agatgagtaa cttcacgaag gaggagtttg tgcacatttt gcggcgacag 360  
agcactgggtt tttcgagggg aagctccaaa tacaggggag ttactctgca taagtgcggg 420  
cgatgggaag ctcgtatggg gcagtttctt ggtaaaaagt atatatatct tgggctattc 480  
gacagtgaat tagaggctgc aagagcgat gataaggcag ctataaaatg cattggaagg 540  
gaagcag 547

<210> 3065  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220053f06d1  
 <400> 3065

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 agctgattat gatgcttgca gcatcaataa agcagtatat aatatataca gattttttgc 120  
 aaattagagg atccaaacaa acaagctaata caaacaattt tgaaagaata tatttttttc 180  
 ttgctttgta agaatatagc tcctctattc cctgttcatg gtaaccttat ctagattaca 240  
 tctgttgacc ttgacagtgg cacaaaatct atgaggaagc tggcattgga actcgaagta 300  
 cttgttgacg aaagcgtgct gcaagacggt gagtgatccc acccataaca cgctcccca 360  
 gtctgcgtgc ttcaggttgc tgaagaacct gtagtatagg tagtaaaaga tctggatcat 420  
 aatcattaga ggatcgcaga agttcccata tctaattac ttgatctcta agctctatca 480  
 agttttgcat ttcagtttct gacgttataa tgg 513

<210> 3066  
 <211> 502  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220053f07a1  
 <400> 3066

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 aacaactctg tggaaacccg gcgtgttaat tgtctcttga tggatgagaa gcttaaatac 120  
 aagcgccaat ctagtaaata catgggtggt ctcggtccta ttgacaatac cagtctcagg 180  
 ggagacccta atattttacc cgatattgaa aaaaaccttc acaggcattt gccttatctc 240  
 aaaatggggg gttttttttt atagcgagcc gaaaactgtt tctaggactg atcctgctca 300  
 ttccatgtgt gaaactcagt ttagatttaa caagaacatt gctattatca ttgacatgac 360  
 cattgagagt ttcaattcag gtgatatcgt caactacacc gatatttatt tttatagtat 420  
 cgtacctttg aagggcagac attgccgtga aagcgataac tctagtacta gtataataac 480

ttgtacgaat gatacctatg at

502

<210> 3067  
<211> 477  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220053f07d1  
  
<400> 3067

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ggtagcaatt tatgtcctgt ataagtacta actactaact aactagcact ttcacttttc 120  
ttacctaggt aataattttc tatacaacca tcttcagtgg ttggaaacat gcacattatg 180  
gaactgtgaa aattgaaatg tgtatgatat gatatgatac gtcacctctc caatgaaact 240  
attaggccaa aagctcatgt caatggctctc tctatgtatc aacaaccacc accatcagct 300  
ggctcaattg aacttagaag gccgtttcct cttaactgca tgcagtgggc ttcagcatcc 360  
acttgagcac atactatcac cactgctagt ccattataat gtgcctcctg catgatgtta 420  
accgcactat caattgtcat tccaggtatc accttcatca acacttgcac aacatat 477

<210> 3068  
<211> 289  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220053f08a1  
  
<400> 3068

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taccttatgt gcatgggaca ttaccgtatg agaacctaaa accgaaccgg ggtctgagga 120  
acctgttgct gatcgctacc tataggagac tcattcttgac gaacacagac aaagtccacg 180  
cggataacgc gctgagcacg cttggattag aagactgctg gggaggactc atatgcttag 240  
agacctgga tcctatacac aagagcactg attatgacga tgaagatga 289

<210> 3069  
<211> 288  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053f09a1

<400> 3069

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ttttcgggtg tggttggttt cattctctct cttttggctg cttagctttc tgggttcctc 120  
tctcccaatg acgtctcaac aacatcctta tcttccttcc ctttcacaca gacacaaaaa 180  
gatcaatagc attgttatct agtgacaaaa aagagtacca ttgtgattgt taaattatac 240  
tatagtacat gtaaattgta aagtggtagt agtacaagcg tttcaatc 288

<210> 3070

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053f09d1

<400> 3070

ggggctccct tgtatccagg tgccacagaa atgctaattt ctgcaactaa atcaatcaca 60  
tggtctacct aggagcagca atagaaactt tacctgcaat ggaccaggac ggactattgt 120  
gtatccaagg ccagatcttc ttaaggaatc ttcaccagcc ctcttggtt taagaacctg 180  
ctcccgcctg gaaggctcaa ttcctagtcc agaacatgaa actaatacaa aatcggtttc 240  
ttgccagta ggcaaggctt taatatattc caatataagc ttaaagcttc ttaaactctg 300  
tttcattggt gcatttcctt caacaggcct ctgtcttcta ggctcaaagc gtatgggtcaa 360  
agtatgcaca agaaaaggat ctaacactgg atcatctggt ttcactgggc ggaatgatga 420  
aaatggtact ctaaccctac aaaatcccac ttttgacta attcttgcaa aatacaatct 480  
actctgactt ggatctgccg aaggaccagc ttctagaatt aatacataag atc 533

<210> 3071

<211> 548

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053f10a1

<400> 3071

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gagctagtcc tcaggttggg taagaggttt atgagtttgg accgtgatgg tgctgctttg 120  
 gttaaggtgg ccaagttggg tgattgctac ctgctgagg ctgctgtgga tgccaatttg 180  
 accttgtctg agttcattgc acttgctgga gctcttccaa gtcattcaag agccacggat 240  
 gatggcttgt accgagccat tgacacgtat ctaaaagcac atccagatgt gtcaaagcaa 300  
 gaaaggaagg gcctgtgtag gctgcttgat agccggaaac tcacaacgga ggctcactt 360  
 catgcagctc agaatgaacg gttgcctgtg agagctgtga ttcaggtgct cttctccgaa 420  
 caaaccaaac tcaaccgcca catagattgg agtggctcct ttagtagctt gaggaagccc 480  
 aatggaggcc ttgaccacc aggacgatgc ctttcatagc gtgaaacaaa tgctcagcaa 540  
 atggagat 548

<210> 3072  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053f10d1  
 <400> 3072

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 cccccggggg gggggggggg aaaggggaaa aaagatttgg ggggggggaa tttttttccc 120  
 taacaaaaac caaaaattgg gcccccaact tgggccttaa aaaacaaagg ggccccgggg 180  
 ggggggtttt ttaaaggcct ggggagggga aatggggcac aaaaaatttt aaccattcca 240  
 gggggggggg ttaaccgaga caaaaaccct tggggcccgg gggggccaaa agggggtttt 300  
 tggccaccaa tatactccct ctaaaaccct tggggggggg aaaaaccctc cccttttggt 360  
 gcccccccca taaatatttt ttggggggca caaggg 396

<210> 3073  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220053f11a1  
 <400> 3073

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ggtgattgaa agagaaggaa gaagaagcag gaaatggaag cagtgaagagc tggtcgagaa 120
ggagcaatag gtctaggtca aggtgatggc gtagccaagg acagcactga gactgaactc 180
accaaaatcc gtctcctcag ggcaattggt gaaacccgtg atccctcttc caagatctat 240
tgtagccagg aagaggatga ttttatgatt agaagattcc tgcgtgctcg tgatttagat 300
gtagagaagg cttcggaat gctcctcaag tacttgaaat ggagaaattc atttgttcca 360
aatggctctg tatctgtgtc agatgttctt aacgaacttg cacaagataa ggtgttcatg 420
caaggacacg acangatagg tcgacctata cttatggtct tcggtggaag acattttcag 480
aacaaggatg gtcttgatga attcaagcga ttt 513

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<210> 3074
<211> 494
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220053f11d1

<400> 3074

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aatccaattt acagagtcac aaatcacaat gactagaagc aatgagaaag aaagcttttc 120
tccatcccat ttcttcttat ttctattgtc acagtttggc taaccaattc ttgaagctaa 180
taataacatc attgccacta gaagaaaaaa aaaacgctga taagaaatag aaaaatcaac 240
taaaaaaaca aaagtaagga ggtgtggaac tagtagagga ccaaactgct gctaaagggtg 300
gcaatttctc caaaaacctc aatttcttgt agtgccagcc aattcacata tcaaattctc 360
tgcataactt cagtaattga agaggctagc atagcacaac atgatcgatc atccatggca 420
tatcgacaaa taataataat aataataata attagttggt ccacaccagg gaaaaaagga 480
ccagggtgga accc 494

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<210> 3075
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220053f12a1

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<400> 3075

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ctggatccac acttattatg ccatttcttg ataaccagct gaagtctcct agcccactcc 180  
tgttacctgc gcaggatgct gttactccat tgtctgaagc agaagcagtt gatctgggtca 240  
aaactgtttt tgcactgca actgagagag atatatacac tggagataag gttgaaatcg 300  
tcgtcctaaa tgccagtggg attcgtcgtg aatacatgga cctaaggaaa gattaatgct 360  
ttacagaaat ttactgttgg agataccaga cttggattga gaatgtttga aatgcttcta 420  
gaattttaaa tgacatagtg ggtttttcac atgaggtgaa aattaaata gcgtttccag 480  
tgaaattgct ttgaacaagt actagtctgc tcacattata actagactgt gctttcactt 540  
aaatttgcac t 551

<210> 3076

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053f12d1

<400> 3076

acataaatga atcattatat tcataaatgc tgcataagc cacataaatt ttctcggaat 60  
ccaaacactt tttactattg cttggttggg agaaggaaga ggagtgggggt atactttaac 120  
acaattttcc aactctatgg ttttttttagc tttccataat ctctatgtaa cattaaaata 180  
taataacaat gtgtatacaa tatccataga aaataaaaag taaaagtag agttaactaa 240  
ttaacaccaa gcagatgcga cgggtgagagt tcttcccatc cagccaaagc aaatcccacc 300  
gttctctact tttaccgcga ctcggttccc agcgccaccg agtcgcgctt tgatcgactc 360  
agcgactcgc tgactcagcg gtttcaacct gaaccagcc atgctcatac gcgctcgcca 420  
ctttccaaac acctcgcacc gttccacgcy gttccttccct tcgcacgcca ccgagttccc 480  
caccttccga ctcagtcctt tctcgatcct aactc 515

<210> 3077

<211> 518

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053g01a1  
 <400> 3077

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 gcttcgatcc tccaaccag aacccaccaa acccgctcgag ccacagcaac agaaccatga 120  
 gactgttgaa ctcgaccaac agcaacccat ccccgaaacca accctagaag actccaacac 180  
 catggccatc gacgaaccaa aacatgaaca agaagaagaa ccgcaaaacg ccgaaagcga 240  
 acaagaggta gaggaagagg aagaggaaga agatgaacaa caagaggagc aggaaccaga 300  
 aactcgagaa gggcaaccgg gaccagaaac cctagaagct gcaaaccaag ccgaagcgaa 360  
 cggtagcaat gaaggaaaca acgaagaaga ggaagaggag gatctcacac tagaagaaga 420  
 gcccggtggag aagcttctgg aaccgttcac gaaggagcag ctccactctc tcgtcacgca 480  
 ggccgtggat atgttccccg aattcgtcga tagcgtgc 518

<210> 3078  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053g01d1

<400> 3078

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 ggcggggggg caaaaaaagg ggggcaaaag gggccgaaac gggggccccg ggcggggggc 180  
 cctgacgtga cgaaaacacc gacggggggg caaaaacccc aaatgggggg ggcggggggg 240  
 caaacctgg gggtcggggc gaaaaaaggg ggaccggggc gggtacagga agagggcccc 300  
 ggctttcggg ggggg 315

<210> 3079  
 <211> 644  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053g02a1

<400> 3079

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ggaggttcaa tttgccctcc catttcacta acgcacacat cacatcatac cagagactcc 120  
atctccctct cgcacgcgac gagggagtcc cgcttcggaa tctcaccccc tctttctgct 180  
aattcgcaag atggttgctc agaaattcgt tgtcgacttg aacaagcccc ttgtattcca 240  
ggttggggtat cttggggaag cctacgatga ttgggttcac gatcctatcg taagcaaaga 300  
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gattccaacc gtttgggtgc cggttgcgag ttggttcatt tccaactctg tcaaactcagg 420  
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tgaatacacc ttgcaccgtt tcctcttcca tgtaaacc cagagctact ggggaaatac 540  
ctggcattat cttcttcatt gcttgacca caagaccccc atggatagct atagacttgt 600  
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<210> 3080

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220053g02d1

<400> 3080

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aatggcctca gacattgtag acgcggatca attcacagaa caaaagaaga accatttctc 180  
gagcaataat taaacaaaaa ccaatgctca agaggcagta atatttacac tcccgcgtcc 240  
accataacaa caaattcaac ctgaaaaatc gcatacacca ttcaccaatc tttctttaac 300  
caatcaagaa ttcttcgagt cacgaatttt ctttgccacg gcagccaaat tgtcacgcaa 360  
agccaaagcc ttggaagaca cagcctcacc atccaacata gcattacaag gctcgccata 420  
acaaccttga ttacaatcct caaactccga agccagagcg gaaaaatcct ccctcatcag 480  
caaactattg tgaagaatgg agcacgcgcc aatgt 515

<210> 3081  
<211> 555  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053g03a1

<400> 3081

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tggggtggtt gaaagtttta aacttttctt gatttgattg caagtttggt cttgaatgaa 180  
tacttctaag aaaagggtac tgccctcgtt cattggatgt gtgaatttct gaactcattt 240  
cacagaggtc atgcattatt ctgctgcctc tctttgcac caatacctgc tgtcgggttta 300  
gacttggaat tcttgattca ggattgttct aagtgtgagc tggatacccc ttcaatcctc 360  
tgggtattggc atgtaccaa tttgagaagc ctgtaaaggc ttgctgggga agtagaggat 420  
ctacactaat ttgaatgggg cattctgcag ctgtgtggga ctatagagca gcaactgaaa 480  
ttacaaagga ctggaatggg attcatcaa tttgtgcttc gactccaagg ggtgcttcag 540  
cacaggtatg cttac 555

<210> 3082  
<211> 407  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053g03d1

<400> 3082

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gggaaaaaag ggggccccaa aaggataag ggggggcccc caaaaggggg aaaaaaaaaa 120  
ggggaaccca aaccggggg gaaagcaaaa aggggaaaac ccgggggggc gggaaaaagg 180  
ggggcccaaa aaacacaaaa agggtaaaaa acgaaacaga aaaaagggga cccccacaaa 240  
aaacccaaaa agggcccaaa ggggggcaaa aaaaccccca aaaaaggggg ggaaatggct 300  
tgaacggggg ggggccccct ttggggggcc aacccctcc cgggaaaaaa aggggaaacc 360  
cccaaagggg gggggggccc aaaggaatgg gggaaaaaaa cgggggcc 407

<210> 3083  
<211> 534  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053g04a1

<400> 3083

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cgttcccttac ttcccagcga tccagtctcc aacgatccct cgttgcccct ttcatttccc 180  
tcgcctccag aaattacgcc aacgtgccgg ggcaaaagga aaccaaagtt aaggtccttc 240  
tggctttgtt tggaggttca ggaaactatg cctctgcttt gtatattgca tctgtgaaag 300  
ccaatgcagt ggaaaaggtt gagactgagc ttctgcaatt tgttgaggca gtaaagaata 360  
gtcccatatt ttcacagttt ataagggact tgtctgtggc taaggatgtt agagtgaag 420  
ttatccagga tatttgtggg gaagccaagt tttcggatgt tacaagaac tttcttgta 480  
ttggtgctga gaatggaagg cttaaaaaca tagacaccat tgcaaagaga ttg 534

<210> 3084  
<211> 530  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053g04d1

<400> 3084

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aactaaagag atgaagcaca tgtacattta tttttatatt tatgaaactt agattgaaac 180  
aatacaactt aactatatgt tgatgctttg ccaagtgatt ctgcaatctt actggcaata 240  
cagtaagatg tagactgaat ggttaccatg gggttgacac caactgcact aggcaaaaca 300  
ctcccatcac acacatacaa gccttctgct tccaagtct caccattctc atcgagtgca 360  
ccttcttctt cagaggcacc cattctacaa cttgacatct gatgtgcagt ggtaaacact 420  
gtccacactt cattccttga ccttggaccc ccaactattg tcacagtgtc aagaaactcc 480  
tccaaatctt cctccttcat ccccttacac ttgattcttt ggccatcact 530

<210> 3085  
 <211> 550  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220053g05a1  
  
 <400> 3085

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 ttctattcca agacatgtcc caacgttttc aacactgtaa aatctgtagt taaatctgct 180  
 gttgtcagag aacctcgcat tggggcatct attgttcgtc tcttcttcca tgactgcttt 240  
 gttcaaggct gtgatgggtc aatactactt gatgacactc caaccttcca gggggagaaa 300  
 actgcagctg ctaacaacaa ttcagtgaga ggctttgaag taattgatgc tatcaagtct 360  
 gaggtcgaga aaatatgccc tgggtgtggc tcattgtgctg atatcttgga cattgcttct 420  
 cgtgactctg ttgttcttct tggagggcca ttttggaag ttagacttgg aagaagggat 480  
 tccagaactg cccactntac tgctgctaac actggtgtta ttccacctc cacatctaac 540  
 ctcaccaacc 550

<210> 3086  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220053g05d1  
  
 <400> 3086

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 tgttgccaac aaaaattttt tactaggaca ctgaatgcca aactacctc tcggaatatt 180  
 tatcttacag ttaagggggg gggttcaata caactacct ccaagattga tatccggttt 240  
 tctccaggtt tcggaccact tgttggggcc ctttgggtgac taaaggcccc acaactgggtg 300  
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<210> 3087  
 <211> 549  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220053g06a1

<400> 3087

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 ctgggctcgtt gacgttttcg gtgaggggtga gaaggcgctt accggattttt cttcaatcgg 180  
 tgaaccttaa gtacgtgaaa ttgggttacc attatctgat aaaccatggc atatacttgt 240  
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 tcattgattn tgcattgtat aaacccgatg atgaactcaa ggtgtcaagg gagcagttga 480  
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<210> 3088  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220053g07a1

<400> 3088

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 tttctctttc cgtgtcacc cttttcaggt taatttgcaa tgactgaacc ttccaaggtc 180  
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 ccttttggag tcataacaaa gcttgtcatg ctgcgtgcaa aaaatcaggc tcttatccaa 300  
 atgcaagatg ttccttctgc agttaatgcc ttacaatttt atgcaaattgt tcagccaagc 360  
 ataaggggga ggaatgttta tgttcaattt tctcacatc aggaattaac aacaatggag 420

caaagtcaag gacgaggaga tgagccaaac cgaattctct tagtcacagt tcatcacatg 480  
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<210> 3089  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053g07d1  
 <400> 3089

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 ggggcccccg gaatactttt tttcccttaa acccttaaaa aaggggggaa cggggggaaa 180  
 aaggcccccc cggggaaaaa aagaaatttt cccccctcc aaaaaagggg gccgggggaa 240  
 aaaaaaacc cccggcaaaa aacccccggg caaaaatttt tttttttaa aaaagggggg 300  
 ggccttttta ccccccccc cccccaaaa tgggggaggg gaggggccc tcccccaagg 360  
 ggggtcccaa tccttttggg gggttcctaa acccgggggg ggggggggg 409

<210> 3090  
 <211> 541  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053g08a1  
 <400> 3090

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 atctactcct tttctcttc ccaaaatcat tctccgattg cgcctagggg tcacacttcg 180  
 aatcgccgtt ttctgtcatg aattgggctc cgtagcaca cctcgccgac tctcgctgac 240  
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gcgttgatgt cattcttatac actttttcta ccacagggtt caatctatct taattcaatc 480  
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 g 541

<210> 3091  
 <211> 507  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220053g08d1  
 <400> 3091

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 tttttttcta cctgttcctg tagtaaaaag agttccatct gttcttgaat agcttccttc 180  
 aaaaggactt ctgcttcccc agtgaatgtc ttggtagaag atatgatttc tttgaattga 240  
 ggtttattcg tgtttaagta agcacgtaac tcaacaagaa atttccttac ctgtccaatt 300  
 tctaataaat caagataacc attcgttcca gtataaatag ttattatctg ttcttccacg 360  
 gtaagaggag ctgattggga ttgtttaagc aactcgcgca atcgttgacc tcttgctaata 420  
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 aattgtgcta attccaattt taattta 507

<210> 3092  
 <211> 518  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220053g09a1  
 <400> 3092

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 acctctgagt ggcgtacctt cgccaacgag tccggtgaca acgatcccaa tcgtgtcggc 180  
 gggccctcca acccctcct caccgacggc ggcctctcca ccgtcatcgc caagcccaac 240  
 ggcgccggag gtggcgcgca gttcctctcc tctcctcctg gtcgctggca gaaccgcggc 300

tccaaccctg atcgcgccct catcatcgcc ttcaagacca tcgccaccat gtccgacagg 360  
 ttgggactcg ttgcgaccat caaggatcgg gcaaagaga tatataagag ggttgaagat 420  
 caaaagtcta gtagaggaag aaatcaagat gctttattgg ctgcttgtct ctacatcgct 480  
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<210> 3093  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220053g09d1  
 <400> 3093

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 cagccatcaa gtcattgctag cttcttcata atattttggt tgatagccca gcccaacact 180  
 aggatctcca atattgaaac acctaatacc ctaccttcgg accccaata tattgaaaga 240  
 ctcaaacaac atcattgtga agaacctcct tctaataatcg atggaaatca ttatatgatg 300  
 atcctcccat atcagtggct tctattgctt tctttttcca ctccagacac ttttgtctca 360  
 ttcccttccc cctttctcgg gttatcattt ctttcacaag tgttgtcacc tcctcccttt 420  
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<210> 3094  
 <211> 530  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220053g10a1  
 <400> 3094

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 ttacattcag gtgaaaaatc caacagcaag aatcgaacat gaagctagta cgtccaaaat 180  
 tggatgaagat caattgtttt attttcagca aaggggaata gactatgaaa aagcaatggc 240

tgctatgac tctggatttt gccgtgatgt ctttaatgag cttcctgatg aatttggttc 300  
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 ttgttaagca tatcattata tggaatttgc tcaggccatt tgttcctgaa attgtcaaag 420  
 tccttatagg tagtgtattc ggaaggatgt gtatatgttt ggatatagat gctgtcttca 480  
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<210> 3095  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053g10d1

<400> 3095

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 gatcaaatga ctattgaaca caatttttag tggcctcaat ctagagacta tatgactgtt 180  
 tttcatgggt tccagaggat ggtagtctct gcgatcatgg aggtgactac atatggatcc 240  
 atattagaag caggccttct gtctctcaaag taacctttgc cttttttctc tgtgtctctt 300  
 ccaactctaa tggagcttcc acggtttgcc acaccccaag aaaagggtgt gatgtctgca 360  
 gtttcatgtc ttccagttag acgtctctcg ttgccttctc catatgctgc aatgtgctcc 420  
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<210> 3096  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053g11a1

<400> 3096

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 ctttgcgga ttcgttcgta tttgtttcag tgctgagatg gggaagggtcg cggtgggagc 180

tgccgttgtc tgcgccgccg ccgtatgcgc tgcggcgggc ctggtggtgc gccaccgcat 240  
 gattagttcc cggaagtgga gtcgcgccat ggcgatactg aaggagtttg aggagaagcg 300  
 tggcacccca attgtgaagc taagacaagt ggctgatgcc atggatgatg agatgcacgc 360  
 ggggtctcgca tctgaagggtg gtagccagct caatatgttg atcagttttg tcgatatctc 420  
 ccactggtga tga 433

<210> 3097  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053g11d1  
 <400> 3097

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 ttattcaaat tagcttctgg tatttcaaga ggttggtggg cttcttgggg gtcaatggca 180  
 ctaccctttt ccggattatt tactaaaaca ggggtctcat tattggttat tttagcaaaa 240  
 ccgcccatta gagcccttgt taaccattgg gctttaagaa gacgtttttt caaaatacct 300  
 atatctacgg gtgggggaat aggcgcctga tttgggaata cccaatttg gccgctatta 360  
 gtagataaaa agatttcctt cacttccgaa tcccaaacaa ttggattggg gg 412

<210> 3098  
 <211> 473  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053g12a1  
 <400> 3098

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 aatgagatga tatttgggtct atcagatcaa gcaactaatg attttgctag gatatttcat 180  
 aggtctactc taagcagagg agttcaggtt cagtcttaca aacatgatag tgcatttcat 240  
 gaattttcct ggaagaagtc caaggataaa ggtgtaagga gttgttttagt tgagtgcatt 300

ggtgggatct tacacgagta tttatctact gaggtatgga atgttccaat tgatggcaga 360  
 attgctgact tgcagcttaa tgctgcagtt gaagaagata ttagcctata ctttttccaa 420  
 gatgctgcaa tgctacgtga ggttattatt gatggagtaa gattctttaa tct 473

<210> 3099  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053g12d1  
 <400> 3099

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 ttctcaatct aaggtgtaca tgtacatctc aattctcaaa aactctatct acaaactgtg 180  
 gaaaatagaa ttattccttg tagaaaattt ctgttatgta ttgcaatgtt cacataatta 240  
 tctacagta aaatactgat cttccttcgc tgtcaaattg attcaaattc atatagccag 300  
 ttctatttat aatccttctc tcaagtggat tatgcagtgc aacgggttcc ttgactatt 360  
 tttagctcat tatgtatgtc ttacacggcg ccttgttgtc gtaaaggctg agcttcagca 420  
 tgaactacat tattttgctg gtccagtggc atgtattgtg acatgatagc catgatctca 480  
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<210> 3100  
 <211> 564  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053h01a1  
 <400> 3100

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 atacgctttc atactgcct tctgcgtttt cactgttttc ttagcctttt ctccttcccc 180  
 aaacgcttcc tccccctggg tcaccaacat attctcccc gcacccacca ccgatgggtc 240  
 ctacaagcct caaattccca acattttctc tctccttttc ccaaactcct ctgatccct 300

gcacaataac actaactctt ctagatctcc ttatccaaac acaaccactg aatctcaaac 360  
 actcaaagaa acctctttgg aaaacagaac acaaacaacc ttagtgaatt caacccaaga 420  
 tgcagttcct gttccaacca cataccagac cacggattct cacgcgcaa gtttgagggt 480  
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 aactctggtg aacttaccta tgag 564

<210> 3101  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053h01d1  
 <400> 3101

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 agcaatatag gatatggcca gattaataga tcttatggca tggttgatcc attgtagact 180  
 ccaattgctt catgaaggca cctaataaaa tgctttcaaa gaccatcata gtaaccacca 240  
 acgcttatgt gagctctgct cataggaaca cctcttgctg cagaaattgc atcattcaat 300  
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<210> 3102  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053h02a1  
 <400> 3102

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 ttgcccattc aatctgtgtg tgttctcttt gcctcataga ctgatacttt ctgctattcc 180  
 ccactatgtg cttcatcacg tgaatgcaca cagtttgagg tatagtgcac cgattgcctt 240  
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gaccatacct ctagcgccgt ataaatcggc ccactaagt actcatggcc tatactatgc 360  
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<210> 3103  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053h02d1  
 <400> 3103

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 aaccacctg aggaagaaat gagcttcgca gacaccataa ggatctgggg cacaagaaat 180  
 gcaaggggga ggcacacgaa agaaggaccc tgaggaggga ccaaccaaag caggctggcc 240  
 gacagagaca acatgccagg aatgccaaag cggaagggga cccaagcaaa atagggaaca 300  
 aagtcagggc gaacaaaaaa gacgagcggc ccaaaacc 338

<210> 3104  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053h03a1  
 <400> 3104

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 gtggctaagt tgccaaagga taccacaacca gggttgttga gagcaagtgg aaaggatgca 240  
 tcaaagaagc tgattgattt aggtctagaa ttcactcctg ttgagcaaat catcaaggat 300  
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 tggtcatgcc atttatgttt ctacctatgg tcttgtgttg tgcacttggt cgtgtaactg 480  
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<210> 3105  
<211> 529  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053h03d1

<400> 3105

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attgagccgc aatatatgtg cggcaagcta aacgaaaagg actattttgt agaaaactgg 180  
tcaatgatgg ccttccatgg attcacctat ataagccgca gctaaagtag caaaaatgag 240  
agcttgaata ccgcttgtga ataatccaag gaacatgaca ggtataggaa ctactaaagg 300  
tactaaagaa acaagaacaa caactactaa ttcacagct aatatatttc cgaaaagtcg 360  
aaaactaaga gataaggggt ttgtgaaatc ttctaagatg ttaatcggtg aaaggattgg 420  
ggttggttgg atgtatttat taaaataagc taatcctttt ttgaaagac ccgcatagaa 480  
atatgcaatt gatgtaagta aagctaaagc aacggtagta tttatatca 529

<210> 3106  
<211> 484  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053h04a1

<400> 3106

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ccttcctcgg actctttcct cttcttcccc ttccgaatca ccgttcgag ggttttgctc 180  
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aagtgatgat ggtgtggctg ttgtgagaaa ttaatgatcg ttgagggtgt gggacattgg 360  
tacagagctt tcagtgtagt tgacaactac ctaggagga agaagaggaa tctttcttcc 420  
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gcag

484

<210> 3107  
<211> 497  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053h04d1  
  
<400> 3107

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aaagtagaaa gtattacata actataggaa tgttggtgaa aaagtctatc tattactatt 180  
actgtagct agaaatccgt ttagctctgc aataactgtc cttctttctg atggagggtc 240  
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atgctagagc ctataactgc acaaaatcgt caagaaaatt gtaaagccaa cccccacaat 360  
ctaaatattt acgaaaaaga actactaatg tatctaaaga aacagtaatg tcaaaactat 420  
ccaaagggtc caatccaaat ttccaagaag gggaaaagga agaacaaaga aattaagttt 480  
aatttaccta tattacg 497

<210> 3108  
<211> 524  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053h05a1  
  
<400> 3108

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accaaacc aa ttcgatcaat ctacctttca tgtattatat tgattttcct tgaaaagtta 180  
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actggaaggc cacagggaaa gacaaagaga ttttcagagg aaaatctttg gttggaatga 360  
agaaaactct ggttttctac agaggctgag cacccaaagg agagaaaagc aattgggtca 420

tgcacgagta ccgactcgag ggaaaattct ctgctcaciaa cctcccaaaa actgcagagg 480.  
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<210> 3109  
<211> 485  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053h05d1  
  
<400> 3109

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tgaggagaaaa aacagaagca tgagagtaga atcatctaaa ccttttccct tgataaaaaac 180  
atcagggact aaattatgcc agttcatttt tcacggacac attgccatcc ctctgatcta 240  
tgctcaatgc tctctatcc acaaaattta ccattctgtg ggaaagtacg cgagacttat 300  
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tcaccagttg aaaaaagatt aaacaccaca gttccaacca aatacaacac aactgaaacc 420  
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cacca 485

<210> 3110  
<211> 581  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053h06a1  
  
<400> 3110

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ccttcattcc cgattcggtc gtcttcgctg cttcgcgta acactttttt tctcttctag 120  
gtcatttatg atttcgatct tttcctttaa tttctcctcc atttgttttg atttgatttg 180  
aatttccacg gttaagttaa ggtagtggtc gggaagatgt cgagtcacgg tggttcttct 240  
ttaaggaacg gttccttgct caatagcccc acgcgggcca agaagaaagc ctttggctct 300  
gagcattcaa cgcctgactt tattgctcgt aaaaccttta cctcaccgcy caccatggga 360

gagagaactg tgaatcatt gcggctttca aaggcattga cagttcctga aacaacaacc 420  
 gtctatgaag cttgccgtag gatggctgct cgcaaagttg atgctctatt actaactgat 480  
 tctaattgctt tgctctgtgg aatcctcaca gacaaggata tagcaacaag agttattgct 540  
 cgtgagttaa tctcgaagaa acacctgttt caggttatga c 581

<210> 3111  
 <211> 510  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220053h06d1  
 <400> 3111

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 gatgcacaca gaagtgttac acactcttta acacatactt tctgacacca cactctccta 120  
 ctagttgaaa attatcagaa aatacaaaat aaggagggttc gttaaataatg tagcatccac 180  
 caatttgtga ttttcaatca ataagaaaga ttgtgttcaa aagagtattt gagagtattt 240  
 tcctaacatt tctcgtgata caaatatgat gataaaagcc tgctaagaag agaactgtga 300  
 atctcccaac aagtaaattt acaccaagcc ctccagatag cacataccca ctctgtatta 360  
 gcagaataag ttgcctgaga taaatgagga gcatgtctag aatcgacgga tgtctttagg 420  
 aggctgaag ttaaggggat gggtttctgg agtggcactc tcattcttctt tccacattnt 480  
 tatcgtcttg tcagcttcgc aggttatgag 510

<210> 3112  
 <211> 526  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053h07a1  
 <400> 3112

gaaagcaagc tcattcctaga gttttaaaaa tggcagcagc ctctccatg gctctctctt 60  
 • ccccatcctt ggctggcaag gccgtgaagc tgggcccacg agccccgaa gtcgggaggg 120  
 tcagcatgag gaagaccgtc accaagcagg cctcctccgg aagcccatgg tacggcccag 180  
 accgcgtcaa gtacttgggc ccattctctg gcgagccccc gtcctacctc actggcgagt 240

tcccagggtga ctacggctgg gacactgctg ggctttcggc cgacccagaa accttcgcca 300  
 gaaaccgtga gctcgaagtg atccactcca ggtggggccat gctcggggcc ttgggctgcg 360  
 tcttccccga actgttgtcc cgcaacgggg tcaagtttg agaagctgtg tggttcaagg 420  
 ccgggtccca gatcttcagc gaggggtggc tggactactt gggcaacca agccttgctc 480  
 acgcccagag catcctcgcc atctgggcca cccaagttat tctaata 526

<210> 3113  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053h07d1

<400> 3113

gacacaagtt atgaatatat aaggtccact tttttttaca gtgaaaacag ttgaaacgaa 60  
 gttgttaata atagattgcc gagagaaatg ggtaaaagaa atttcaccc aagatttaata 120  
 aattgatcta ttcttagcct aggcaaagtc catcttggtg cgatagaaag gaataagaat 180  
 aaataagttt tagctagtgt aataaagata ccaattatcg ttacaaaaac tccatatgtt 240  
 tgatttattt caaaaaagtc agaaacgaat atgtatggaa tagagatatt tgaaccacca 300  
 aagtaaagaa ctgttacaaa taaggaagaa atgaataggt ttaaataagga agcaacataa 360  
 aataaaccaa atttgatacc cgagtattcg gtttgataac ccgctactag ttcttcttcc 420  
 gcttccggtg aatcaaaagg taatctttca cattctgctt gggacgagat tagaaaaaca 480  
 atgaaacc 488

<210> 3114  
 <211> 106  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220053h08a1

<400> 3114

tgccatttag tgttgaagaa atcttccacg tcagctngct caacactaag ggggtgggtcc 60  
 ccaacaaata gtgcctccga agcgccacat tcttttttgg gtgtaa 106

<210> 3115  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053h08d1

<400> 3115

gaaactggag ccaagtggga atgttaaaat tattgaacca attttttggg gaaaaccaa 60  
 aggggggaccc caccacacat ttttaattttt aacaaaagaa aaaccgatg ccactcctt 120  
 gcccaaacia aacatgctta ttaaaccag atgggttctc tatgtcagaa accaacggga 180  
 tgtttttccc cttaccggtt ccaccactt taacagaaat tcctcggcaa tcaaaaataa 240  
 aaaacgctaa acggggggcga ccccttatct gaaaagtta acaacaaaac ttccaaaaa 300  
 tggataattc cacactcaat ccgattcata aaccggggg ggggtttccc tctctttccc 360  
 gtgataatct caactactga ggacctgtaa tgaccaggct tgtattgacc ctaaccaggc 420  
 ccactgacgt aaccagcctg gggcg 445

<210> 3116  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220053h09a1

<400> 3116

ctcttcactt tcattcactc cgttgccatc tcaaaccga atccaaatcc aaatccaaca 60  
 cgatgtcgta tcgaccttcc gccaacgcca ggaccgaggt tcggcggaac cgctacaagg 120  
 tcgccgtgga cgccgatgaa ggtcgccggc gccgagagga taccatggtg gagatccgaa 180  
 agaaccgtag ggaagagagt ttgctgaaga agagacgca gggctctcaa tcccagcaga 240  
 ttccttcgct acttcactct actgtaattg agaagaagtt ggaacacctt ccagccatgg 300  
 ttactggtgt tttcaccgat gacaataaca tgcagtttga ggccacaact cagtttcgga 360  
 agttgctttc gattgaacgt agccaccta tcgaggaggt tattcaagct ggtgtagttc 420  
 cacgctttgt tgagttcttg atgaggggaag attttccaca gctgcagttt gaggcagctt 480  
 gtgctttgac aaatatagct tctggaactt ctgaaaa 517

<210> 3117  
<211> 523  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220053h09d1

<400> 3117

gattaaaaag ttgccaatca gcttttttatt gataaaacaa aatttccaag tatcagaaca 60  
aaacctacta taacagagaa taaacaaatc ccgaatgcac ttattatatt ggcaaaaaac 120  
aaaatgattt gaatgaccaa aattctagga aatgaagtta taaactatta acaatatgat 180  
gtccattgtc cagagctttg gctagacaaa cactcagatg gagagacaat atcggttatt 240  
tatttcctaa ctctattcaa cgaactgaag cacaaatgga ctgttggttg tacaattctg 300  
tgactccatt tgtgatcttc tgctgtttt tctctctctt tgagacaact ataaaccctt 360  
caccatctcc attcttattt tcagtaactc ctaatttctc tggctcaacg ctatcactgg 420  
aatgaggcac tggcttattc ttttcttcat ttccatacat aatgtttatg acagcacggg 480  
ctttggtaat ttcacagaa caactttcaa gttctcaatt ttt 523

<210> 3118  
<211> 501  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220053h10a1

<400> 3118

gttttctccg gcgaattttc ggcgcacaaa aaccatccga ttccaaatcc gccagaaaa 60  
gatggacctt cctcaaacac accgtcagga acaagtcact cccgccgcca ccgccaccct 120  
ccgccgtcac ttactttgat tcctcaactc ccttggacgc caacaagcat gccatcgccg 180  
tcgccgccgc caccgccgcc gtagcagagg ctgctctcgc cgccgcccac gctgctgcgg 240  
aggttgtcag actcacaagc ggaggcgtct ccgccacaag caccaggccc gccgctatgg 300  
cggcgcgtgt tggcaacctt gaaaccgccg ccgttaggat acaatcggcg ttccgtgggt 360  
acttggcaag gagggatttg agagcgctaa aagcattggg gaagttgcaa gcattgggta 420  
ggggccacat tgtgagaaag caaagtgtg atatgctgag gcgcatgcaa acattgggtg 480

gacttcaggc ccangcacgt g

501

<210> 3119  
<211> 520  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220053h10d1  
  
<400> 3119

gataagtcgc aaaagctttg aattgaaatc attcaccttc gtcaataaat taatcctgac 60  
ttattctcat tgaaaacaca tgttacattg ggaaaacgag actactcaaa agttttacatc 120  
tctcctagta tttaatgtgg gagagacaaa cactgtaacc aaaataatgc accagtaatt 180  
ggcgggagaag cagcaatggt gcatttgcag caagaagaac acagccctaa aaataacttc 240  
acagtggact tgggtccacct tcctgggttaa aagctctcaa ggactagtaa ctaagacttt 300  
tctgcttcaa tttgttgatc tagtaggtat acaaaaaaat gaaactagtg ttacactgat 360  
ttaccttggc gttaaaccac atcttcagga ctctgcact cccaaatact gggagttaga 420  
agctgccagg agggctgctc caattccaga gccatcatta gaatgttcaa tgccaactgt 480  
ctcatctgcc tcatcaccca acaactcctt tagtgtactc 520

<210> 3120  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220053h11a1

<400> 3120

gacgtgtcac gcaacaagga atatattccg attgttgggc tagctgattt taataaattg 60  
agtgctaagc tcatttttgg ggctgacagc cctgctattc aagacaacag ggttaccact 120  
gttcaatgct tgtctggaac tgggtcatta agagttgggg gtgaattttt ggctaaacac 180  
tatcaccaac ggactatata cttgccaaca ccaacttggg gtaatcacc ccaaggttttc 240  
aacttagcag gggtgtctgt caaaacatat cgctactatg ctccagcaac acgagggctt 300  
gattttcaag gacttctaga agatcttggg tctgctccat ctggatctat tgttttgcta 360

catgcatgcg cacataaccc cactggtgtg gatccaaccc ttgagcaatg ggagcagatt 420  
 aggctgctaa taagatcaaa agctttgtta cttttctttg acagtgttta tcanggttct 480  
 gctagcggaa gtc 493

<210> 3121  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053h11d1  
 <400> 3121

gggaataagg atgattcttg aggaccaaag acgttcta atccttacia taacacggac 60  
 atgtgcacgc taaagtataa gccttcaata caaaacatta tttaactact tgtccactga 120  
 acaagacaag attcttcact ctttccaaca tactatccca tggtatgtac caagaacttt 180  
 acagttacat cccaaacaca atatttccca aactgaaat attcaattta aggagacacg 240  
 aaccgtaatg ggtctaaatc catcagcatg ggtaacaatg ccaatctgtt ttcagtaata 300  
 atcatgtcaa cgagggctgt aactttgcat tccctttatt gtgcagaggc tctttcaagt 360  
 cgctcagact caggttgacc tgaattagtt gaggattacg tcctatacgg agaccatagc 420  
 aggaatgatg ccctgacgca gatattttat gaccctgaag aagatttat 469

<210> 3122  
 <211> 174  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220053h12a1  
 <400> 3122

ggtgtatagg tgagaagcga ttgttaaatt ttgagccaag tggatatcttc tcaggtgcgg 60  
 tttcttattg catgccctca attctctatt caatcaagta tgaaaattcg tggattctgg 120  
 ttaaattgat gctcaattgt gaattttatt tgtatgtgaa atgttaaaga ttca 174

<210> 3123  
 <211> 541  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220053h12d1

<400> 3123

agaggggaata tttcatatca atgtcatggt aactaaaaaa acaacataga gaaagttaat 60  
aaattttctca aaattaagaa tatacaatga gtgaattaat gcagcagcag cagtagtcac 120  
acaagtatca tcatataatg cttaaaagaa attaagcata gagttttcca aatacaacct 180  
taaagttagtt ctccaaaaag gaaaagaaag gaggttcatg aaacacatat agaactgttt 240  
cctccattgt tctgcaccac attatacaaaa cttgggtcaa atgaggagca aatttttcat 300  
aatcttggca atgcgcgggg aagaatgcga ggttgggtccc aatcagtgac aatgtgatca 360  
cgagtgatat ccttgagtga ggtgcaacca ctcaaggcca tggttagctc aaactcctca 420  
cgtagcatcc gcagcacgtt tcttacacca gcctattctt tagcagccaa ggagaacacc 480  
acagggcgtc caataaatat gccagaggca cctagtgcta atgccttgaa gacatcagtt 540  
c 541

<210> 3124

<211> 578

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220054a01a1

<400> 3124

cgttgatggg attcagatta aacaatcatc aaaattcatt attattaatg atttacgggg 60  
taaagtagtt catatggatg tagtgaaaag aaagggaaag gaacatgaga aattgctgat 120  
ttctgatgat gatgctccac aagataagaa gaaagaaagt agctggaatt ctaacttact 180  
gaaatgggct tctggtttca ttagtagtaa tgaacaacct aaaaatgctg aaaccaattc 240  
accagagaaa ggaaggggtg gacgccatgg aaaaacgatt aatatctttt caattgcttc 300  
tggaacttta tatgaacgct ttctaaagat tatgattcta agtgttctaa agaatacaca 360  
ccgtccagtt aaattctggt tcataaagaa ctacctgtct cctcctttta aggatctgat 420  
tcctcacatg gctcaagaat atggttttga atgcgaacta atcacctaca aatggcctac 480  
atggttgcat aagcagaaag aatagcaccg aataattggg catataaaat tttatttctt 540  
gatgtcatct ttcccctttc ttgagaagtc attttgta 578

<210> 3125  
<211> 151  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054a01d1

<400> 3125

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aaccaccatg agacagtcca agattatcca ccatgactgt ttattattac atataacaat 120  
ctgtaattcg accaaaaaac taacaacctg t 151

<210> 3126  
<211> 388  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054a02a1

<400> 3126

caaaatttca gaagctagtg atcaatcatc aacacagagc tgagtgtgtt gctctgagaa 60  
tccaccttct tcttccattg gaggaccatt tctactgga atagaaatac taccacactt 120  
ttcttttttc acttctctaa ggtgctaagg taatttgctc cttcattttt tcactctttg 180  
ggctcgcgta cccgtgttac cggactcgt ggtgaagtgt tcgaaaaaga ctgtcacacc 240  
taagatctca gttaacgatg ggaaacttgt tgtccatggt aagaccattt ctgactggag 300  
tgccagacaa cgttgtgctg actccaggat ctggaagggg tcttgtgact ggtgcttttg 360  
ttggtgccac agcttcacac agcaaaag 388

<210> 3127  
<211> 394  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054a02d1

<400> 3127

cctaacttat tctattacaa ttgtaaaaaa aagaagaaat aaaagacgaa ataaagaaga 60  
ggagattaat tacatattaa ttacatatat ttaatactta attggatcta taaatcttct 120

tcaccccttt ccgtgtcaat aactagaatg aaaaaaaagg gaatatcaat gcatctggaa 180  
 aaaaacgatt gatctctatc aagagacccg ccaaagcccc gaaccataga gtacttacta 240  
 ctgggtgccac ggaaagatat gtttttagat ctgcgatttc aaatcctcct ttttaagtct 300  
 tttttctatc taaaatttat ttgaatttaa tattcttttt gattattcta aagaatatta 360  
 gttatatttc tttagaatct tttttttctt tttc 394

<210> 3128  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054a03a1

<400> 3128

gggaaaagaa tattgacttt gcagctcata gtccccaaga agagtcaggt tctcttttag 60  
 ctaacctgat tgggaatctg gctttccctt tgctcttgat tggaggattg ttccttctct 120  
 cgagacgatc cggaggggatg ggaggtcctg gtggccctgg atttctctct gcttttggtc 180  
 aatccaaagc caagtttcaa atggaaccaa acaccggagt gacatttgat gatgttgctg 240  
 ggggtggatga agccaagcag gactttatgg aggtggtgga gtttttaaag aagcctgaga 300  
 ggtttactgc tgttggggct cgcattccta aaggagtctt tcttggtggt cctccaggaa 360  
 ctgggaagac cttgttagcc aaggctattg ctggtgaagc tgggtgtcca tttttctcta 420  
 tatcaggttc tgagtatgtt gagatgtttg ttggtggttg tgcttctcgt gttcgtgatt 480  
 tgttcaaga 489

<210> 3129  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054a03d1

<400> 3129

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 tccttttttt tttttttttt tttttccttt ttttttggtt ttcttttaaa aggatggcct 120  
 ctactattat aagtaagagc tcataaaccc aatcacaaat gggctatctg aatttgagga 180

tcgagttctc actttgagta taactagtcc ctcttttagga aagatcatct caacaagcac 240  
ctaacctgtt gaactttcca ggatcacacc attttgcctt gatcctgatt acaggcttac 300  
atgcccacgc agtgactttc caaagccaag ttccaaaggc aactgatttg ggaacccaat 360  
aagccggcaa aggggccctg ctgaacct 388

<210> 3130  
<211> 419  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220054a05a1  
<400> 3130

gagccgtagc agcgggaagct ctagcttggg tagcgaatca caatggcgag aggattaaag 60  
aagcatctga agaggcttaa tgccccaag cattggatgc ttgacaaact ggggtggtgca 120  
tttgctccta agccctcatc tggaccacac caaattgagg gaatgcctgc cactcatact 180  
cattntgcga aaccggctga agtatgctct aacataccgt gaagtcattg ctattctgat 240  
gcagcgacat gtccttggtg atggcaaagt caggactgac aaaacatacc ctgctgggtt 300  
tatggatggt gtatcaatcc ctaaaacaaa tgagaacttc cgcctgctgt atgacaccaa 360  
aggtcgattc cgtctccact cagtcaggga tgacgaggct aagttcaagc tttgcaaag 419

<210> 3131  
<211> 568  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220054a05d1  
<400> 3131

tcactgctcg gtggccgccc tttttttttt tttttttttt tttttttttt ttacggatca 60  
ctacccaaat gaaggaaact ggagcatacc ctaaaatagt tcaaacaact tgattgcttc 120  
taacggttcc ctatcacctt taaaatgtga ggatgtgacc aactagttgg agttggaaca 180  
caagctggta caatttgatt aaccgaccat aaggatgtga atcaatgaag gacggcaacg 240  
ccgtactcaa aactcaaggc atattacaag attgttcctg gcttgctgct tgaaatatca 300  
tgcgtaaac aatggcaact ttgcttaaata gaaaaatgtc aataagactc tctaatacat 360

tcttttaaac acactctatt attgattaaa atttattgaa aattacaatt ttttttctca 420  
 cttctttctt gtcactatct gatgaagtca tctcactctt tgtaatttcc catatatctt 480  
 aaccaataat caaatgtgtt aaaaaaagta tcttagaaaa tgttttgtag cacttctact 540  
 aaatcataat atgcctagaa acataagc 568

<210> 3132  
 <211> 550  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054a06a1  
 <400> 3132

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 cttcatccat caacactgcy tccgcttagg gtctgacctc gcgactcgtt tggatgacac 120  
 gaaacgagcc ctagctcaag cttatcataa ttcttctatt ccccaaacac gccctcgccg 180  
 acacttctac tctgggctcc ctgcacgtgg ctaagtcctt cgtcggcacc tctgtttaca 240  
 ccgtcagcaa ttccaacaat gagttcgctt ttatctctga cgctgatgga gccaaagtcca 300  
 ttggattgct ttgctttcgc caagaggacg ccgaagcctt cctcgctcag gttcgatcac 360  
 ggagtagaga gcttcgaagc aaggctaggg ttgttccaat tactcttgac caggtataca 420  
 tgttgaaggt tgaaggcatt gccttccgat tcttaccga tctgttcaa ataaggaatg 480  
 ctttggagct taaaccagcc aacaaggag gtttcgatgg agttcctggt tttcagtcag 540  
 agcttttgggt 550

<210> 3133  
 <211> 73  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054a06d1  
 <400> 3133

aagcgcaaga aatgcttcaa tataatgtaa tgatggaagt cttccatgat gaaattcaaa 60  
 cattagaagc atg 73

<210> 3134  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054a07a1

<400> 3134

aagctctgga actggaaccc tctccttctt cctcctcggt tttcttcact caaacatgct 60  
 tttccatcaa caactactcg cctcgtagct cacaattcag tctcagaaac cggtccatt 120  
 cataaggaaa aggaacaaac cctaccttct gtcaaacctt cttactcccc cactcctccc 180  
 aatcgaggcc ttcgaacccc tcacagcggg taccattttg atgggactac tcgcaaattc 240  
 ttcgagggtt ggtacttcaa agtctccatt ccggaacgga agcagagctt ttgctttatg 300  
 tataccgtcg agagtccctt gtttcgtaaa ccattgacgc agctcgaact ggccaatac 360  
 gggcccaggt ttactggtgt cggggcccaa attctcgggt ctgatgacaa atatgtttgc 420  
 caacactctc cccaatcaca ttttttctgg ggaagcaggc atgaactaat gttggggaac 480  
 acgttcgagc ccaacca 497

<210> 3135  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054a07d1

<400> 3135

gcttaaatgt tttattgaag ttatgcacat ttactaaatc caaacctgga ctggtttatc 60  
 aagctagtta atacataagg gcaattgatc tcaaaccctg aatgctctaa tgctgaagga 120  
 acataaagct tcaaatagat acacatgcat atatgtaaaa ttacagttc aactagaat 180  
 ctatatacca caactaggat tagcaccaac tgatttggct atagactatt gaattctaag 240  
 ctgtcaggag gggcatggcg gaatttggac ttgacatca ctttctagca tctgtgtcac 300  
 agatctcatt gatgggtcta agaccatgga tcctcttgct caca 344

<210> 3136  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054a08a1

<400> 3136

tgagtttcga aggggaagtg aaatatgtga ggctatggag gctagcaagg ctgattggga 60  
tactcttttt gagccttata ccttttttga atcatacaag aattatctac agatagatat 120  
aacagcagag aatgcagatg accttagaca atggaaaggt tgggttgagt ctcgctccg 180  
ccagttgaca ttgaagattg agaggcacac ttatggatg cttcaatgtc atccacatcc 240  
tgggtgaattc tcagacaatt ctagaccctt tcaccactgt tactttatgg gtctgcagcg 300  
taagcaagga gttccagtga atgaagggtga acagtttgat ataaggctaa ctgttgaaga 360  
atttaaacad tctgtcaatg cttacactct atggaaacct ggaatgaata tccatgtgtc 420  
ccatgtgaaa cgccgtaaca ttcctaacta catatttgct ggtggtgtcc gacctacctt 480  
ccca 484

<210> 3137

<211> 510

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054a08d1

<400> 3137

cattcgaatt cattttattt atatattaat attatattca aatgaaataa aaagatatta 60  
aaagatacta attataagaa ttgaaagtg aaattataaa ggttattaaa tgattaatca 120  
atctttttct acctgttctt gtagtaaaaa gagttccatc tgttcttgaa tagcttcctt 180  
caaaaggact tctgcttccc cagtgaatgt cttggtagaa gatatgattt ctttgaattg 240  
aggtttattc gtgtttaagt aagcacgtaa ctcaacaaga aatttcctta cctgtccaat 300  
ttctaataaa tcaagataac cattcgttcc agtataaata gttattatct gttcttccac 360  
ggtaagagga gctgattggg attgtttaag caactcgcgc aatcgttgac ctctgctaatt 420  
tgattctgag tagctttatc gagatcagaa gcgaattggg caaaagcttc taattctgcg 480  
aattgtgcta attccaattt ttaattacca 510

<210> 3138

<211> 515

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054a09a1  
 <400> 3138

gttcatttgt attttatgac ttcagtggaa gcttgtgccg cttgttacac agaaacacat 60  
 ctaaacttga ctggagacgg cgagttcata tggccttgga tattgcacga ggtgtaaatt 120  
 atcttcatca ttgtaacca cctatcatcc acagagattt gaagtcacat aatcttctag 180  
 ttgataagaa ctggactgtg aagggttggtg attttggctt ttcacgtctt aagcatgaaa 240  
 catatctcac aactaagaca ggaaggggca cgcctcaatg gatggcaccg gaagttcttc 300  
 gtaatgaacc ctctgatgag aaatctgacg tttacagctt tggagtaata ttatgggaaa 360  
 ttgcaactga aaagatacct tgggataatc tcaactcaat gcaggtattg ctttcatctg 420  
 tagatgaacc tttgaaaata tatacacgtg cagcctgaaa tggtagtaaa gcctattgaa 480  
 tggaaatcca ctgcagagtg tctgtttatc ttttg 515

<210> 3139  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054a10a1  
 <400> 3139

tctacaatgg ttccaaagct tagtggtgac gtggatgatg gtggaactgg gcttgaaact 60  
 aagcctatct gaacaatacc ctctcttcc ttcttctatt aagggtgaag ttcttagata 120  
 agaagaagaa gagagcataa gatagccttt tgaagctgaa agcaaatttt gtgaagtagc 180  
 atatatactt tcaatttggt tagttcttct ggggtggagtt ccttcatttg gtgtttgtag 240  
 tcatggaggt ttcttggttc tatacctttt gcagcttttt atggatccaa ccatcccaa 300  
 tgtgccaatg gttcaaaaga aatgatatga taacagaagc tcatctcctt tgttaccaga 360  
 ttgacctgat tgagtgttag acttatttgt agaggcagat ctcttttga agtgtaaccc 420  
 tcaatattgg aaaaagaagc ttcattctatt tcagatatct atttatgatt gaagattcag 480  
 ctgtactggg caaatc 496

<210> 3140  
<211> 312  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054a10d1

<400> 3140

gccccgggag aaaaaaaca tgaaacacca ggggcccggg agcggggggg ggaaagcccc 60  
ccgggggcaa acaacacccc caaaaggggg gccccccccc ccgcgggaga cccgccccag 120  
ggggggcccc ccccccccg ggaaacaggc cccccccagg cctagggggg gggcaccccc 180  
ccggggggcc cccaaagaaa ggaaccccc ctggggccgg ccccaaaaac cccccttttt 240  
ggccaaggaa cggggggggc cccaagacc ccccccgcca cccccagaaa gggggggggg 300  
gggcccccca aa 312

<210> 3141  
<211> 384  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054a11a1

<400> 3141

atcgaatcgc atcctatggg tagcagcaga ggacacacgc tcatggagggt tggacccgac 60  
gggggtgccg tcatcaccat cgtcaaccct cccgttaatt cactttcctt tgatgtattg 120  
cgcagtttaa aggagagttt tgatcaggcg atacagagag atgatgtcaa ggcaattggt 180  
gttacagggtg caaagggaaa attttctgga ggttttgata tttctgcatt tgggtggtatt 240  
caagaggcaa aagagcgtcc aaaacctggt tggatatcag tagaaatcat cactgatact 300  
attgaagcgg ctaggaaacc atcagtcgct gccattgatg gccttgcctt ggggtggaaga 360  
ttaaaagttg caatggcatg ccat 384

<210> 3142  
<211> 491  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054a12a1

<400> 3142

actagtgtg ctattgccgc tgtcccggtc aattcgaagg gaatgaagaa caagggttta 60  
gaattagggc cttaaaacaa ctcaaccaac tttgtgggta aaattagggg ttcaggtgta 120  
aagtgaacaa ctagggtttt ggtaaatttc caaaatgtcg acgggcaaac ccagaggcgg 180  
tgattttcag atggtcccg cgcgggaac gtcaaagcct tcccttccgc cggcagcagc 240  
atcgaatgcg atagtgggaat atactccggt ctctctcaaa gaggaagagg aggatctgga 300  
agtcaagctc cgacggatta tcgacaatgt tctgtccgt gtttagcaata cttccggtag 360  
ttccgcccgt tcagggtccg ggcacttcca ccagtatcgg catatgagac gcatggaaca 420  
agatcgtctt gccaggatgg aagtcgacta ccagaaaagg aaagagctgg cagaatttaa 480  
tttgagatga g 491

<210> 3143  
<211> 537  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054b01a1  
<400> 3143

caaaatttca aatgctagt atcaatcatc aacacagagc tgagtgtgtt gctctgtgaa 60  
tccaccttct tcttccattg gaggaccatt tctctctgca atagaaatac taccacactt 120  
ttcttctttc acttctctaa gctgcttagc taaacgctcc ttcatttctt cactcttcgt 180  
tctcgcgtac ccgtgtcacg gtaactcgtg gtgaagtgtt cgaaaatgac tgtcacacct 240  
atgatctcag atcacgactg ggaaacttgg tgtccatggt cagaccattc tgactggagt 300  
gccagaccac gttgggctga ctccaggttc tggatagtgt cttgtgactg gtgcttctga 360  
tgggtgccaca gcttcacaca gcaaaagtct ccatgtgctt acaatggctg atagacaggg 420  
gctccggttc atgtactgat cacggttcaa gctatgggtg atgactcaca gaatggctac 480  
ttgtgcgcag gatgactctc tggagatcaa atcatgctta ctgagagcca tgagagt 537

<210> 3144  
<211> 493  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054b01d1

<400> 3144

atgagatgat tttcctgccg tccatcgttt ttagagaatc cttatatgtt gttcagctcc 60  
tccgttcaat cgtccattcg tcagatcgct ttgtttgtca tatcatcgag acgtcctttg 120  
ggcgaacgtc aggcacgagc tttgggagtc gtgctaaaag tcgacgtgct gtcgagaggc 180  
gtctatgcgc caaggctggg gaaagcgcta gagtcgctga ggtagggggc gttgccgcca 240  
cgaccaccgt taggagcgcc agcagcagca ggagcaccac gggcttcgcc gcgaccacgt 300  
ccaccacgac cctcaccgtg agcgcggtca ccaccacggc cacggccctc accgccacgg 360  
aaagatccac ggccctcgcc acggccacgg tcgtcacggt caccgcggcc accgtgcgat 420  
ccaccctcac ggggaggggg cgcgagcatg cgcttgctgt caagctcgac gtgaaccttc 480  
tccttgcgct ggc 493

<210> 3145

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054b02a1

<400> 3145

caggctgcgc agtgtttgaa cggtgaagga gagcgtagag gcagtggttt tctttttttg 60  
atttctcttt gtagaatcga atcgagttaa tttttgatcg tgtgagtgtc cgatcttgaa 120  
atccacaaca tcaatgggtga gaggattgct caacaagctc gtctctcgct ccctctcggt 180  
cgccggaaaa tggcagcaca attaaactccg ccgccttaac atacacgagt accagtgtgc 240  
tgaattgatg agcaaacacg gagtcaacgt tccgagaggc gtggctgttt cctctgttga 300  
agaggccaga aaggatcatca aggacctttt ccctaataa aatgagttgg tggtaagag 360  
tcaaacttta gccggcggac gaagtttggg aactttcaa agcggcctta aggaggagt 420  
cacattgtta agactgacca aggtgaagac atagctggga agatgcttgg acagatac 478

<210> 3146

<211> 555

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054b02d1

<400> 3146

aaacaaatca cgggtgaatt tattatatga tgaatccatc ttcaattact gagtttttca 60  
atacaatggt aaccccagaa cggatgtaaa acccttccga agatctatca gcctcttgta 120  
taccctctga gtttgctatt acaacattct ttccgattct agcgtttttg tcaataatac 180  
agtccttgat ttttgatttt tctcctattc caattggaac tcttccttca gctaagagtg 240  
ctgccacttc tgcacgggtt tcataataat cagcaccaag catcactgta tcctttaagt 300  
gaatatttga gtttattctg gatctgattc caacaacact gtgctctatg aaggaattat 360  
tcaagaagct tccatgtgat ataattgaat caacaatctt gctattgtca atctttgatg 420  
gtggtgaagtt tctccgtgat gtatacattg gtttggctgc atcataaaaag ctaaacctgg 480  
gtggatgctc agtgagggca agatttgcct caaagatgat ctgtagtacc tatgtttcca 540  
gtatcattga tagat 555

<210> 3147

<211> 434

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054b03a1

<400> 3147

gaacggcaat taatttaciaa tggccgtcac gaaaagcctc tcaatcttcc tcttcatcgc 60  
aatgagctgc gtcgccgcag ctcaggcagc gaacttcaac atcaciaata actgcaccta 120  
cacggtgtgg gccgctgccg tgcccgccgg cggcgcaagg cttaaccttg gcgaatcgtg 180  
gaacatcagc gtgacgaacg gcacaacagg aggacgcac tggggtcgaa caaactgcac 240  
cttcgacaac gcgggacgcg ggaagtgcct caccggcgac tgcgagggtg ttctggagtg 300  
caacaaaaca ggtacacccc cgaacacggt cgttgatttc gcgttgaacc agtattacia 360  
cctcgacttc tacgacatct tcctcgtcga cggtttcaac gttcccctac agctgacccc 420  
gacctacaac tgca 434

<210> 3148

<211> 537

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054b03d1

<400> 3148

cccaaaaatc agcatatatt tcctctataa cattggctct atattcctag accatatatt 60  
aactgatccg ttaacttaat caattccaga aaatttcata cgaacaaatg ttaaaatgca 120  
tatacataca tctttcagaa actataatgc tgtgtagcca attagattca ggatcgtgtc 180  
taattgctgt ctctatgaca atatcattga attgagcatg ttgatcttct cggtgggttg 240  
atatgaagga gctatcatat tcttccttga tcagcctgtg gtccaatgta tctagtcca 300  
ttaatgattc acacaggcgt aaggaatacc cccaaatgc atgaccttg accttcaact 360  
tcgtgaggca aattcctcag attggaggat acatattatc actttcaact tcactttcaa 420  
tttcaactatc attttcgcta ttataggtct tgagatatgc ctcacacccc tgctcaccat 480  
cctccacctc tgagttctca tcactactag gataggcaga atccaatttg tcataca 537

<210> 3149

<211> 555

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054b04a1

<400> 3149

gaacggcaat taatttaca tggccgtcac gaaaagcctc tcaatcttcc tcttcatcgc 60  
aatgagctgc gtcgccgcag ctcaggcagc gaacttcaac atcacaaata actgcaccta 120  
cacggtgtgg gccgctgccg tgcccggcgg cggcgcaagg cttaaccttg gcgaatcgtg 180  
gaacatcagc gtgacgaacg gcacaacagg aggacgcac tcggggtcgaa caaactgcac 240  
cttcgacaac gcgggacgcg ggaagtgcct caccggcgac tgcgagggtg ttctggagtg 300  
caacaaaaca ggtacacccc cgaacacggt cgttgatttc gcgttgaacc agtataacaa 360  
cctcgacttc tacgacatct ccctcgtcga cggtttcaac gttcccctac agctgacccc 420  
gacctacaac tgcagttccg ttaaattgcgc cgccgacatc atcggagagt gcccactca 480  
gctccaggtt cctggcgggc tgcacaaccc ctgcacggtt ttcattacga ctcagtactg 540  
ttgtagcacc ggagc 555

<210> 3150  
<211> 352  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054b04d1

<400> 3150

aattgaacca cattttattg aatccaatat ctatgatgac tacaactatt ataatgttcg 60  
agctcttaaa agcttacttt tcaaggaagt gctgctcttg aggagcgggt taaagcttac 120  
aggactttca gcccctcttg aggagatttg gccttaccat gcaccttcac tataggactg 180  
ccaacgatgt caccgtcagc tgcccatacc ggtaccctgt atagatgctc aggttttgaa 240  
catccttgcc aactgggagg gtttagtttc agcctcttgg tttcctggag aaagaactga 300  
acgttgcccc taaccgatgc ccgggctaca acgaccccca ctgtgctcac ag 352

<210> 3151  
<211> 560  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220054b05a1

<400> 3151

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cctcagggtg aagcatatgg tcctgttagt gaagtctacg tgccttcgag tgaaggagt 120  
gaagcttaca tttggttact ggcaaaagct tacgttggtg tgaatgatgc ttgctaccat 180  
caaatcatta gccattggct aaacactcat gcggttggtg agccattcgt catagcgaca 240  
aacaggcatc tgagcgtggg tcaccctatt taaaaacttc tgtttctca ctatcgtgac 300  
accatgaaca ttaattcact tgcccgcaaa tccttggtca atgccgacgg tattatagag 360  
aaaacattct tgtggggtag gtactctttg gaaatgtctg ctgttattta caaggattgg 420  
gtnttcaccg atcaagcatt gcctaagat cttgtcaaga gaggagtgc tgttaaagat 480  
ccatctgctc cccatggagt tcgacttttg atcgaggact atccttatgc ttctgatggg 540  
ctagagatat ggatgctatc 560

<210> 3152

<211> 591  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220054b05d1

<400> 3152

aattccagga gtctactggt cggcggccgc cttttttttt tttttttttt aaccagaaaa 60  
gaatggccat acaaaatgtc tagaacaacc aaatgcaata ttacaaact tacggtactt 120  
actttgaatg aaataaatta caaaagaaat aacagaagat aaaaatttca taatttggtta 180  
ttgaagttag aaatgtctct atgacaactt tgcagatgta tcaaaccctt ggttctgcaa 240  
ttctgcccta agccaacata ctttcaagaa caccctaaaa ttagaagctt gctagcaatt 300  
ttgctataaa ttgcagtcaa aaatagcaca tgctttatgc atatatgcag ttgagatttg 360  
agctgattca tcttgagcat ccagagtaaa ccatcacaat atgctacttc ccagaagtct 420  
gaatatttga catcaaccaa attctgtttg ttgaacaatt agactcaatt ccaaacacgc 480  
taacagcagg atgatcatgt gcttgtgtaa cacactatct aactggcaa cttcagtcag 540  
aaaggatttg ttctagacag gaatgttgtc tagagaatat ncatcaaatt c 591

<210> 3153  
<211> 550  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054b06a1

<400> 3153

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ggccaaggaa ctttctctat gcctcttggt cctctctttt ctcatcttct gctcttcagg 120  
gacttctgta tcttcttctt catcgctcgg tggtaacaata ttctttcaaa aaagcaagat 180  
ctccaaatct gagattcgat tttctgtatc agattgcaag attttgagca ctctgaccaa 240  
caccaacctg tcagttgatt tcttctttaa cgaaagcctg gttgaaaatt ttgtttcttc 300  
aaaacaaaat catctctagt ttcattggta gaaactcatc tcatgaacat tattcccaaa 360  
gttgacatca gaagcatcgt tgtagatgt ggcagtgagt ggcattgccac attagatgcc 420  
ttcactcata cccattttta aaataaatca tttattttct cagcaatctt caactgagaa 480

gggaaataaa agtctccgtg gcccttcctc tttcattctt agagaatttg aatgcattgt 540  
atggaaatga 550

<210> 3154  
<211> 533  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220054b06d1  
  
<400> 3154

acaaatcaaa tcgacaagta tatataatct tagcgttata ctccaaagtc tatctacaaa 60  
tgaaatcaaa tagaaacagg ggtaaggcaa aagaaaagaa tttaatcttt ctggatgaac 120  
attattctag tccatcaata ttatctaact caccttcaca gttgctgata tagcattccc 180  
atacaaatca ttcttaccga ggttctcaaa attttgagga aactgcccac aagcaatttc 240  
ttggcctttc tcttaatcca tgaaaaaaca aagggcatct ctactgatt gtgaatgggt 300  
tgagtacatg tcacaatcta taattagaat gatttttgcg ttgctaatacc ttgaagagac 360  
tcttagcaat gaatttatag ctccagcttt ggagttgtga tgatattgag gtctcttctc 420  
acgagccatt tacaccagag ttggcataac aaacccatct acatccttcg aattgtgcgg 480  
gttcctttca tgaagtagtt tcttgaggat tgtatcgtga tcatgtcgag aat 533

<210> 3155  
<211> 400  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220054b07d1  
  
<400> 3155

cgaagtagct gaattagaac tcagtcagga gtccttgcta ctaggtccgc ggttcgtcct 60  
tttttttatt gcttatattt ttaaattgta tatttttatt tagattgttt tttttttaca 120  
gaagatctac atgaaccgga aggcctttcca acattaattg gttgagggaa aaaaattcac 180  
ctgtgctggg aacatgaacc taaggcattt acaaactttg taagaagtgc agcagattta 240  
cacggaatgc cgaatctgtc tagcaaaatt caaacccgac atatttcagc gggatataag 300  
gagcactgga tcagcctgca caaaagccaa tagggacttt ttaatggctc cactggcggg 360

tgcatgaagg ccaagcttgg ctgcaggtc ggtgaccaca

400

<210> 3156  
<211> 488  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220054b08a1

<400> 3156

ctcgagccgc gcttccccac cgtgcttttc agattggtca agtcctttt actccccgca 60  
acaaaacacc acctagtgc agattttttc ttcttcaaaa atttgtttat ctttatccta 120  
atttgatttg gctttaaggt tttccattat agcggttttc tttttattat ttgttgttat 180  
tattatgacg taatttcaat ctttttcata atgactccat aatggcgatt agtgaagttt 240  
ctgagctgtg tgagcgattt agtataaagt atacgatgca tcgtttctgg ttctggatgt 300  
tcatgttcga gcaaagatct tttgtgtgtg tacggttact gctttgacgt tttggatttt 360  
cagtcagtca aatctcgga gttctcagt aagctcttca gcttagttag gggtcggaag 420  
atacttattg aaaagaaaaa tcactctata tagggattag tattttccct ggatccaggc 480  
tagttttc 488

<210> 3157  
<211> 460  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220054b08d1

<400> 3157

ataatcgaca acaactcctc gatgtccatc tcgggtcatt actgcattcg ctttttcaac 60  
aattcccctt tctgggtaaa agacgacaca cccagagggc caaaacataa caatagaagc 120  
aagcaaataa ctaaaatata tcagtcctga aacaagaatt aacaaaaaca actacaaagg 180  
aacgacaatt agcatgggag tcttggttgt tcttcaagcg agtgtaggat tctctgcagg 240  
agaagtccta cacacgatat ctttaagagc tggacgaagc tccttgctac agaactggtt 300  
atactccaag gtgtcacctg tgccttctt aacctacacc accaaaaacg acggcgtcac 360  
ggcgtacaag tccgcagcaa tagcgagttt accttttcgc cctttgtctt gacctgcaa 420

cctaacctta gtctagctct tcttcacgtg gaacttcacc

460

<210> 3158  
<211> 493  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220054b09a1  
  
<400> 3158

ttttcttaca acttattcac cactcgttcc cgttactccc cagcaaccat aattattttt 60  
tttgacaagc agctcaagaa aaatctgcaa agaataaaac aagaggagga aatgcaactt 120  
acttgttgat ataaacttca gacagagcga gttgttgtaa agctagcctt gttgcagcca 180  
tgggcaccca cgcggctcta gcttctacaa ggatccccac taacaccaag ttcccatcca 240  
aggcttcaca ctctttccca acccaatgcg cctcaaagag acttgagggtg acagaattct 300  
ctgggctaag atccacttca tgtgtgacat atgctaacga tgctagagaa tcttcctttt 360  
ttgatcttgt agcttcccaa ctcaactcca agaccaatgg atcatcaact cctgtgaggg 420  
gagagacagt ggccaagttg aagggtggcaa tcaatggttt ccgacgcatt ggtagaaact 480  
tccttcgctg ctg 493

<210> 3159  
<211> 543  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220054b09d1  
  
<400> 3159

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cactttattt tctcccttta caaactacaa aatttagaac tatactgaaa aaaagagaaa 120  
aaatacattht aaaatctggc atcctcgaag ccatgcaagt cactgactct gttcatagac 180  
tttctcataa tagccacttt agccagtctc tcagctactc tccaagccga catcggcgta 240  
agtggctccc ccttttcatc gaagcaatta ttattacaac tacttcttaa cttttggctc 300  
ctcagctcgg cttgttcgga ttcgagccag cgcaagcact catcaccctg ttcgcggtc 360  
acagatgctc gagccgagga tagcaactca agcgcgccag acacgtcgtt acgagccatc 420

aaccttctcg actcggctac ggcgcgagcg ctgacctggc aacgtcttaa ccgttcgatt 480  
 ctggggtcgc atgatcgaac cgtgcggtgt cgcggaacgt taactcacga tccttgga 540  
 tac 543

<210> 3160  
 <211> 500  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054b10a1  
 <400> 3160

gaaatctgaa gctaacttaa gggaaatgag atggccaatg gcaacactag tcatcgcttc 60  
 aagctcttgc ttttccttct aactctgcac tcttcattcg ctgagatttt cttcgaagag 120  
 agattcgaag atggatggaa gagccgttgg gtgctatccg attggaaaag gagtgaagga 180  
 aaagcgggta ccttcaagca cacagcagga aaatgggtctg gggatcctga tgacaaaggt 240  
 cttcagacat ataatgacgc caagcatttt gccatatctg caaagatacc cgagctaagc 300  
 aacaaggaca gaaccctggg gctgcagtat tctattaggt ttgagcagga cattgaatgc 360  
 ggtggcggtt acatcaaact tctttctggg tatgtcaatc agaagaagtt tgggtggtgat 420  
 accccttata gtttgatggt tggaccagat atatgtgggt cacagacaaa gaagcttcat 480  
 cttatactat cataccaggg 500

<210> 3161  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054b10d1  
 <400> 3161

acagaaatgt aacttgatat tcaagtgcct cttggaccct gtagatggaa ggaaggagat 60  
 tcagggtacc gtgcttcaat tcaaaccctt atacatcctt taaaaaaaaat gcaaaaaacta 120  
 aaatcaataa acactttttt ttgctcggca aaataaataa aactgacta atgagagcat 180  
 caaacctcag gagtacaata caaataatga cccggataaa ccatttgtca ctcaatcctt 240  
 gaatctctga agtaaacacc aaatcaggtc ctcttcttag caattacaca gatacaaacac 300

gagccttgta catgattata tacgccatgt gccaatcacc ttctccggat agtctagtta 360  
 tgtcttcttc tagttttggt ttgggattgg catcgtcaaa ctctatccat ttgccatttt 420  
 cttgctagac ccaaccaaca taatgtcct 449

<210> 3162  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054b11a1  
 <400> 3162

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 agaaaattca caaggataag gatgccgagc cactgaatt tgaggagaca gttggacagt 120  
 acttgttcga cttggagAAC accaatcagg atctgaaaag tgacttgaaa gatctctaca 180  
 taaaccaagc tattcaaagtg gatgtggctg gtaatcgcaa ggctgtagtc atctatgtgc 240  
 ctttcagatt gaggaaggca ttccgcaaga ttcattctcg acttgtcaga gagttggaga 300  
 agaagtttag tgggaaggat gttgtcttga tt 332

<210> 3163  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054b12a1  
 <400> 3163

cacgtggcag agcctcttct gaattgctgg cccttttcca tgctgagaga gaaggcacta 60  
 gaagtcgcaa ttgatcatat tcgttatgag gacgagaaca gtggatacct ttgtattggt 120  
 agtgtagaga aggtgttggtg tttgattgca cgttgggtcg aagatccaaa ctgagaggca 180  
 tacaagcttc atttagccag aatccctgat tacttttggc ttgcagaaga tggattgaaa 240  
 atccagagtt tgggtttctca actgtgggat gctacattag ctatacaagc aataatatca 300  
 tgtgatttga gtgaagagta tggacctaca cttcgtaaag cacaccactt ttgtaaggct 360  
 tcccaagtgc ttgaaaattc atcaagtaat ttcaaagcaa tgcacgaca catatccaaa 420  
 ggagcatgga ca 432

<210> 3164  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220054c01a1  
  
 <400> 3164

ccaagattaa tctgaacaag ttgctgtgcc ctgctgtcac tgctctctga gcaaaaccag 60  
 aagaacacat caatccaacc ctgccaaaat caatccccag ataccattcc ccttcccata 120  
 acaaagacaa cccaatcatt gtttgttcac atccgaatcc acaaaatact gttataatta 180  
 ttctgattca cgaaaaacag gaaaacccga atctctctct ttgttcctct cggggtcacg 240  
 aaaatgggca cagagacctc atcgggtggat atttctgaac ccttgctcgt ggattctcac 300  
 gggaacgagg aaaaggagga gtatttgccg gaggaggttc cggaatggaa ggagcagata 360  
 acaataagag gggttggtgg gagtgctgtg ttggggacct tgttctgcat catcacccac 420  
 aagctgaacc tcaccgttgg gatcattcct tctcttaatg tggctgctgg cttggtgggg 480  
 ttcttcttt 489

<210> 3165  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220054c01d1  
  
 <400> 3165

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 ctcaaccccc ggggggcccc ttggtttttc aaaaaaggaa aaattgctcc aaccaaaaag 120  
 ggggccccca aaccaaaggc ccaaagaact ggggccccaa aaatatttcc cccattggg 180  
 gttccgggat taagggtctt tgtataaaaa aaggggcccc ccaaattttt gggggggggg 240  
 ggccttaaaa acccaaattg aaggtcacc cccgggggaa aaccccccg gggtattggg 300  
 gaaaaggga aaaaattggg ccaaaaaggt attcaaaacc ttacataaaa aaagggcctt 360  
 tttggggaaa cccccgggg g 381

<210> 3166  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220054c02a1

<400> 3166

tggtggtgaa attgcctggc caacccaagg ttgggtttaa gcaatttgct ggatatgttg 60  
 atgtagatgc caagcatgga aggagcctct tctactatct tgtggaggct gagcaagacc 120  
 ctcacaagaa gccctcaca ctttgggtca atggaggtcc tggatgttcc tccattggag 180  
 gaggtgcttt tactgaattg ggaccctttt atcctaaagg tgatggacgt ggtctccgaa 240  
 gaaattcgat gtcttggaat aaagcatcca accttctttt tgtggagtct ccagctggag 300  
 ttggttggtc atactcaa atacaattcag attataatc tggagatgcc tccactgcca 360  
 atgatatgta tttgttcacg ctgaaatggg acgagaagtt ttcattctat ataacaaggg 420  
 agctgttcct tactggagaa agctatgcag gacactatat accccaattt aactaatgtt 480  
 ttattggacc ataatgct 498

<210> 3167  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220054c02d1

<400> 3167

agctacctgc tcgtaggccg ccgcgtcgtc tttttttttt tttttttttt tttttttttt 60  
 tttggtttct aatttcacgg ttgtgttacc attattagtt aataatttgt taaacacttg 120  
 aaggacaaa gtctactaca taaccaaact ttgaccccaa agatgcatat ctaaagcccc 180  
 acactatggt gtgctatcct ccaattgacg tgatatataa tccccagcaa ccctttacct 240  
 ccaccttttt aattacacct catatatcaa caaagattca aaatcttggc tttcacacac 300  
 aacaagatcc aacctttaga tcaaggacta cttggagggg gtatgaaaca ttaggtgaag 360  
 aatctgccac tactgcactt tagcatgagg ggttcaagag gagcacttgt tttgccttct 420  
 catggatcca attcttcaag aaaaatggct ccggattcca actttgggga c 471

<210> 3168  
<211> 494  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220054c03a1

<400> 3168

tgcacgtttt gcaatcgaac tcgacaatgg ccaacagcaa cctccctcga agaatcatca 60  
aggaaacgca gcgtttgctc agtgagccag cacctggtat tagtgctcc ccctctgaag 120  
agaatatgcg atatttcaat gtgatgatcc ttgggcctac ccagtcgcct tatgaaggag 180  
gcgttttcaa gttagaacta tttttgccag aagaatatcc aatggctgct ccaaagggtac 240  
atatttacta ttattctttc taatggcacc atggcattct tttggtgtta agtttctacc 300  
gaattcttat acaccaaaaa gaaatgaaac taagtctgta aagtgtttgc tggataattg 360  
cttagagtaa actacacaaa cctcccccg ggtttaagga aattagagat gtctcccctc 420  
aatttttaaa agctacacaa acctcccttg aggtttaagg aaattataga tgtctcccct 480  
cggtttttaa aata 494

<210> 3169  
<211> 523  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220054c03d1

<400> 3169

gacattcata gatcagaata tcagacttac atacgggtga acatgatacg ggtgaacatg 60  
ataggagcac aatactatac ataaaaactg acacaacacc ctattagata tgaaaaacta 120  
gatagcatcc aattacaaaa cttaagcata cataagaaaa ttatgcacac ataagtgttc 180  
acgtttattt gtcaatgaga ggtacgttgg aaggaaagaa aaccacacac cacacaccac 240  
acactctcat tagatagaga tgctgttggg aattcctctg aaagtaaggc cttccccact 300  
ggtaggaaga agcacagtgt agggcatctg cgccggtcca ttacggttcc taaggcttga 360  
attcttggtc ctccctgaga ttttgcctc aatttccttc agcttggttc caaacttctt 420  
aaaggcttga attgcctttg tgtcatcagt ccaatttgga ttgtccctct gtccaaggta 480  
gacctcatca gaagcatgcc ttgacaatat ctctatcact gta 523

<210> 3170  
<211> 522  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054c04a1

<400> 3170

accgcatcag aaagcttgct gacaactgca caggtctcca aggttttctg gttttcaatg 60  
ctgtgggtgg gggaactggc tctggacttg gttccctttt gctggaacgc ctttcagtgg 120  
actatggcaa gaagtccaag cttggtttca ctgtctatcc ttcaccccaa gtttcgacct 180  
ctgttggtga gccttacaac agtgtcctct ccactcattc tcttcttgag cacactgatg 240  
tggctgtcct gctcgacaat gaagccattt atgacatctg caggcgttca ctggacattg 300  
agaggccaac ctacaccaac cttaatcggt tagtttctca ggtgatatca tcaactgactg 360  
cttccctgag gtttgatgga gccttgaatg ttgatgtcaa tgaattccag accaaccttg 420  
tgccataccc caggattcat tttatgcttt catcttatgc tcctgtaatt tcagccgaga 480  
aggctcacca tgagcagcta tcagttggtg aaatcaccaa ca 522

<210> 3171  
<211> 415  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054c04d1

<400> 3171

cccaagtga aacaattggg ctgggcattt acaatcaagg taaaaaggta caccacaggg 60  
taagatattt gaaatcctgg ggaaaaatgg tggggcgaca aataaatgga cccaattggt 120  
atgtgaatcc actggctggg aaaacaaatt gtttggggga ccaaacctt ggggcccccc 180  
tttttttggg tcgaaaaaac gagctggtta aactgtaccc ggaaccctt gccaggagg 240  
cccaaactg ttttgcccc tgogaagggc ccttaggagg ggcgacctt ctgtcccact 300  
gaaaggctgg ggtaaatccc aactgggggg aacccttggc cccaacggg gccaaaaggg 360  
tttccagggg aagaattttg ggaaccacgg gaaactggtt ttcaaagggg ggtgg 415

<210> 3172  
 <211> 588  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220054c05a1

<400> 3172

atcaattccg aataaaaatt aggtttttct ctctgtcttt cattttctta ttcttcacca 60  
 aaccgataag caggtgagac taatccatca tccaaacctt tccgatcaa tgacctctaa 120  
 actaattgct tccaatctcc gtcaccaaatt cacaaaaatc agctcaaaac ctctgccgcc 180  
 agcttttttc cacggcggcg gcggtggcgg tgctgaaca cgatgggaac aactccaact 240  
 cgctcggaat gacgatgaag ggcgttcgaa tctccggaag acccctttac ctggacgtgc 300  
 aggcaacatc tccggtggac ccgcgcgtgc tcgacgcgat gctccctttc tacctctctc 360  
 gctacggaaa cctcactcc cgcacccact tctacgntg ggaatccgac gaggccgtgg 420  
 aacacgcgcg cgctcaggta gcgtccctca tcggcgcgtc cccaaggag atagtcttca 480  
 cctccggcgc caccgagtcc aataacatct tcgtcaaggc cgcatgcat ttctacaagg 540  
 acaagaagcg ccacgtcata accacgcaa cggagcaca agtgcgctc 588

<210> 3173  
 <211> 541  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054c05d1

<400> 3173

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 ctctgcaccc caagaaacaa ttattttcct tcgatttttc tctttgtgaa accaaattta 120  
 ataatttatt cttaaatcta ggaaggaagc aaacattggt tgttacattt tctattgtag 180  
 aacatccaac atatatgctc aacacttggc tttctcatag acgtgccatt gactttggag 240  
 tagatgaagc aggtgcactc aagggaatgc ctttgagtgc tctttcttcc aaataccttg 300  
 agggtttata gaagttacca tataattgtg ccattttttt taggctggta tatatatgat 360  
 tggccccaac caagtctgcc cagaaaacaa tgccaccccg gtaatttggg aagctcattc 420

caagaacaga tgcaatgtca aggtctgatg ctggaataac aactccatct tctagaacac 480  
ggcatgcctc attaactact gggaagagta tcattcttcac gatctcttgg tcagtaacag 540  
a 541

<210> 3174  
<211> 462  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054c06a1  
<400> 3174

aaccccccaac gccacgccac tgtcactttc tttctctcac aaatcacaat gtgctccgat 60  
aactacaatc tctcaattcc ccattaatta aaatcaaat caaaatctaa tctgggtttc 120  
tcccatcaga ggacaaagct tccgactttg cgggattcgt tcgtatttgt ttcagtgtg 180  
tgatggggaa ggtcgcggtg ggagctgccg ttgtctgcgc cgccgccgta tgcgctgcgg 240  
cggcgctggt ggtgcgccac cgcattgatta gttcccgga gtggagtcgc gccatggcga 300  
tactgaagga gtttgaggag aagtgtggca cccaattgt gaagctaaga caagtggctg 360  
atgccatgga tgttgagatg cagcgggtc tcgcatctga aggtggtagc aagctcaata 420  
tgttgatcag ttttgtcgat aatctcccaa ctggggatga gg 462

<210> 3175  
<211> 414  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054c06d1  
<400> 3175

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ctattaaaaa aaatagtcac taattccttc atagatggat gtcttctata acgatttata 120  
aacctacatt aataaaggaa cagtaaaaag gaattctaata cagcggatac aaatttctac 180  
agcttattag ctaattacac ctttagcctt ttttactgg ggcataatac gtatccccca 240  
accaaaaaaaa taccaagggt gtgggggaac tcattcttgg tgggtcttttg catcttctaa 300  
tgaaagctaa aagcctaatt gtaataacc tatccatcaa cagctgcaa aatgggtggc 360

aacgggcctg aataattaag gcttacgggc cacggggaat gatgccttgg ggga 414

<210> 3176  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054c07a1  
 <400> 3176

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 ggagcggccg atattcgaga tgatatcggc cgcccagaca atcctgcccg actctgacgg 120  
 tgctatagat gggcaccttc gggaggtggg actcacgttc cacctcttga aagatgtgcc 180  
 cgggatcatc tcgaagaaca ttgagaagag tcttggtgaa gcttttgagc ccatcgggat 240  
 cagcgactgg aactctatct tctggatcgc acatcccggg ggtcccgcga tcctcgatca 300  
 agtcgaggag aagctccggc tcaagccgga gaaactcaa tccacccggc atgtgctgag 360  
 tgagtacgga aacatgtcaa gcgcgtgtgt tttgttcatt ctggatgaaa tgaggaagaa 420  
 gtctaaggag gaagggaaga gcaccactgg agaaggggta gagtgggggg tgctattcgg 480  
 attcgggccc ggtctaacc g 501

<210> 3177  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054c07d1  
 <400> 3177

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 ttttttgaag tttcaatatt ttactaatat atgctaatat atgctaatt aatatttatt 120  
 tataatctatc tacctatatt tataaaagaa taggtagatg gatctcgctg tttacttggg 180  
 gggatctatt gagccggaat acatgtgcgg caagctaaac gaaaaggacc attttgtaaa 240  
 aaactggtca aggagggcca aacatggatt cacctatata agccgaagct ccagaaccac 300  
 aagggacagc ttgaataccg cttgtgaata atccaaggaa catgacaggt acacgaacct 360  
 gcaaaggtac tgatgaaaca 380

<210> 3178  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054c08a1

<400> 3178

gacaaccgta agaaccttgc tgctgtaagg gaggaaatac cacatgcatt aagagcagct 60  
 cctaacgccg cctgttttagt tttagattct ctgaaggggt tttactgtac agaagtgtca 120  
 aatcaggacg taaagaagga tgctaactta ctgggtgttc gccgaacatg tatcatgctg 180  
 atggaatgtc tatgtgattt cctgagcaac tcagggtgtg tttctaattg aatttcagaa 240  
 gatatcaagg accgggctaa ggcagttgct gaagaatgga aaccagatt ggatgctctt 300  
 gacatcgatg ctagcaatgt gaattccttg gaggctcatg catttttgca acttctagcc 360  
 agttttggta ttgcctctgg ttttaatgag gaggagtat ctaggctaatt tccaatggta 420  
 tctcgacgtc gccaaactgc tgatttatgt cgttgccttg ggtttcagag aagatgcctg 480  
 gtgtcattga agttttggtg aatagcgggc ggcacattga tgct 524

<210> 3179  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054c08d1

<400> 3179

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 atatgaaaag gtttgcattc ctattgttga aatgttatta cattataaac ttttcaatat 120  
 gagctaataa ttattgctac atatttccac cttatgcaga atgagatgag caccatgttg 180  
 gggtcctaga gtcataaccc atgttggagc accattatag gtggtagaaa gttcaaacga 240  
 gaaacgctgt atgaacattg acaaagcaac ctttgctgtc taaacagcta cgatcatgtcc 300  
 gatgcattta ctaagacccc ctc 323

<210> 3180  
 <211> 470  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220054c09a1

<400> 3180

cctaaacata aactgttttt cccaaatccc cttcccaatt ttcacaaaa cctaagactc 60  
cgaaaccaat cttcgatcat ggccgccgaa tcacaacctc aactaatcga agagagaaga 120  
gaggagcaag aactttaagt cctggtatat gagccaattc gcgaccatcc atgccctgat 180  
gcgctgtgcc atcctctact cctacgccaa ggagcgcgcg ggtcctctga agcccggcgc 240  
caacaccgtc gaggaggccg tgaataccgt cgtggctccg gtctacgaca ggttccacct 300  
tgtccccggc gaggtcctta aatactccga tcgtatggtc gccgaattgg accgccacct 360  
tcccttcaac gtgaagtagg tcttcttcca ggcccgtcc gtattctacg aagtccgccg 420  
tgatggagtc ttccgctaca ccaaaatcgt ttacttgaag tatgagccca 470

<210> 3181

<211> 514

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220054c09d1

<400> 3181

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gtcggcggtc gccctttttt tttttttttg cagcgaaca aagtgattta ttaatccatt 120  
cgatgttcaa atgtgtatag aaacatttaa ggtctaaatg cccaaatggt ctctaacaga 180  
agctaataa gacaactatg aaataacaat aacgtatctg gcaaaccaga cttattttca 240  
caggacaga ctattcaaga cacttatgga aactactctt tctcatcttc ctattccag 300  
cactttaag ttgatctaag ggaaccacag tactagtct taccgaattc ttggtcgaca 360  
acagaaccag ccattgcaag cccttcgtgg ctgctctctt acgacagtat gccttagcat 420  
ccagaaagcg ggtctgatca atcgacttgc ttgcaccatc cacatggact gcaccagtaa 480  
actcagatgg gaggaaacat gcctaataccc tctg 514

<210> 3182

<211> 494

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054c10a1

<400> 3182

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 agggtttggg aaagggaggt gccaaagaggc acagaaaagt tcttcgtgat aacattcaag 120  
 gtatcacgaa acctgcgatt cgtagggttag cgagaagagg tggcgtaaag aggatcagtg 180  
 gtttgatcta tgaggaaacc agaggagttc tgaagatfff cttggagaac gtgattcgag 240  
 atgctgtgac ctacaccgag cacgctagga ggaagacggg gactgccatg gatgtggttt 300  
 atgcgctcaa gaggcagggg aggaccctct atggtttcgg aggctgaatg attgattcct 360  
 agtattatta aattatgttg caggatataa tattatgcct gttcttctga aattcggtgt 420  
 gatgtttagt ttaaattcgt tctgtaacat atgaatcttt aaaggttctg ttcggacaga 480  
 aaatgtacta cttt 494

<210> 3183  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054c10d1

<400> 3183

tggtcggcgt tcgtcctttt tttttttttt ttaaataaaa tccatagtta cattctcaac 60  
 gagaagacat tatttaatta cattggaacc aacagtttga ttacaagtac taacaaaatg 120  
 aggcaaaaag aaaacaaaca tttttttcct gataaagcta aagctatagc catttttgaa 180  
 gcctggacaa aaagtgcaaa tactaaatac taattactaa aaaaacatat gacacaaaca 240  
 cacacatgaa catggaagaa aacttagtat gccaggtcc aaagggcgtg atcttcctca 300  
 gaaaatccaa aattacaaga actttcaggc gggtcggagt aatccacatc ttcttcaagt 360  
 ttgggaaaga ggtacgaagg gtagagactt ttgctgaggt tatcttcttc atcttgtgac 420  
 atatccgatt gatcatgctc aaacacataa gaagaatcac catgctctag cagtgcggag 480  
 ttaactccat cgggtgtaatg tggactatct gaatccaaaa tatcactcct ggctgaactg 540  
 atatcttc 548

<210> 3184  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220054c11a1  
  
 <400> 3184

ctcaaccac aagaatccct tcctttctgg ctttctctcg ctaaaactat catgtactac 60  
 aacgcggctc ccgaccttcc catatccaac ccccaaacca ccgacgcagg cggcggcgcc 120  
 atcgaggctc cagcgaacaa cccggccttc cgcgccttca tcaacaacct ctccgaggac 180  
 ctccgacacg gtctagacca gcgccgtccg tggtcggagc tcggggaccg atccgcgttc 240  
 gcgaagcccg agtccttctt cgaagccacc ctccgcgtac gcaagaactt ctgctacttc 300  
 cgcgtaact actacgccga cgtttcactc agtctcgcag tctctctcgt caccaatcct 360  
 tgtgctctga tcctcctcga cggcctcctc gcctactgga ccttgctgta cctgttacgt 420  
 ccgtcagatg aaccactc 438

<210> 3185  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220054c12a1  
  
 <400> 3185

gttataatta gatgatataa aattatttta aatcaggatt tattttttct tgtaatttcc 60  
 ataaaccatt ctatagtaca attatgatat tgataatttt taattttatg tgatgtagag 120  
 agtaatagag attataacag tacgggagta ataattaaac tttccattt tggctttgta 180  
 ccatataaaa tccccacacc cgcaaacatt acaacctgtt tgtgtcggtc acactcgtca 240  
 cgagttagag atattttccc aagaagaaaa aaaacactct ccatttgtgc ttgtgttttt 300  
 tcccgggaaa actgagttca aaatgatgaa gaagaaaccg agcgcgagag agaattcgtc 360  
 gtcgtcgtcg tccacggcgg ccagagaaga agagagcgaa tgggaaatga ggcccggagg 420  
 gat 423

<210> 3186  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054d01a1

<400> 3186

aattacagga atcggctgct tagacctcat ccatgcacaa ggctttggcc gcatacgaag 60  
 atgactacgt ctttcctgca tcgacgctga tatatcactg tgacgagact gatcggagac 120  
 acctgtccct actgccgagt ccactgaggc atgattggga gccacatacg ttatccctta 180  
 ggagaaagcg cttttaagta ttgataccgt ttctacgttg caggatcaga cttactctcc 240  
 gtctcatgat acagacatgc tgcaatccat gcttgcaact agggatcttg actttacaga 300  
 tcttaagtgg gaactgccac tactcaatag aatctgtgat gctctagact gatccacagc 360  
 tcaatggttt gagctcgctt at 382

<210> 3187  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054d01d1

<400> 3187

cacatccaca catttataga acagaaggaa cacgtttcca caaagtactt catgaataat 60  
 tcttcatttt tagatagtta catggactaa gtttgagctt aaaacatcga tttgcaaagt 120  
 ttattgccc aaagcccttg tgttgtagac aaaaagtgca ccaccagcaa gaagaccaag 180  
 tagagtcaca gcccaaatac ccaagccagt cgtaccgcca gcgtaaacat caccggttgg 240  
 aaaccagtcc ttgggggttct aaataggact gtaaccttcg acattagcac cgtatttggt 300  
 taaaaactgg taaacgcctt ttccctttcc ttctctgcca gatgcataaa ctctttcctt 360  
 taaagccttg ccaccattaa ttccataagg ctttgtaatc ttgatctttt tgccaccatt 420  
 ggccacaact ttgaatgaaa aggagttcct tgaaaggag ggaaggcctt 470

<210> 3188  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054d02a1

<400> 3188

ctaattcaga agctttagta aaagaaatag ttgggcagac atctgggttac atgcccaggg 60  
atatatgtgc tttaattgct gatgctggtg ccaacttatt tcccagaaac aatgctaaag 120  
tagacaaaga tgtacatgat gatgtaggta gttcccttag ttccaagatg gcagaggaca 180  
acaatcacgg gaaagtttca cctcagatta ctggaaaaga agacttggtg aatgctttgg 240  
aacgatcaaa gaaaagaaat gcatcagcat tgggtactcc aaagggtccg aatgtgaaat 300  
gggaggatgt tgggtgggctt gaagatgtca aaaaatcaat tctggatact gttcagttac 360  
ctctcctgca taaagatcta ttttcatctg gattacgtaa gcgatctggt gttcttttgt 420  
atgggtcccc tggaactggc aaaacattat tagcaaaagc tgttgctaca gagggtcct 480  
taaattttct tagtgtgaaa ggtcctgaac tgatcaacat gtacattgga g 531

<210> 3189

<211> 434

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054d02d1

<400> 3189

cgaagtcgct ggtccggaat tagtcccga gtcctgctc actaggccgc ggttcgccct 60  
tttttttttt ttttttttac ttttgcattc gaatccatga gattcacaga ttaggattat 120  
cttcaaatgc tatacggaga cattaaaaga gactcctgat tagaatacga cagcgagggt 180  
ataaagttac caacgtgatc catcaatgat gctctacctg ttcccgtaga tcacagagat 240  
ccatatgttc ttgcatagct gccttgagaa ggactgggtg tttgccagct gactgttttg 300  
gaacaagatc tgggtccttc gacttgaggc tcctacgtgt gtgcatgggc tcgcagggtcc 360  
tctggaaact cccttacgtg cccgggggact catgagtcaa gataaccatt cgttgcccgt 420  
tttcttgga tcat 434

<210> 3190

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220054d03a1

<400> 3190

ctcattttcg ttttacatgt tttgagaaag tgtgtctctc agaaaattat taatgtttga 60  
tgaaaagtga gaatctggac aaatactact gaattaagtt ttgatgctcc agaatggagt 120  
gttttagctt attacttttt atgggtcttg tctatctgct ccaatccatg atatacataa 180  
caacaacaac aacaacaacc aagccttata ccactagggtg aggttggcta catggaccac 240  
acgacgccat atgatatgca taaccctga ttggaattta tatatatgtt tatatttata 300  
tttattttct ctcggaacac ttgtcttcct gattgcttgt gaagttgata aataagttgt 360  
gttttcccag gttggtagtg gaggagtcca gaaataagtt tgctaaccac gaaaaagaac 420  
ttgcatacct gtctaaagga tttccaaatt tctcagggtg tgggtctaac atcccgaata 480  
tag 483

<210> 3191

<211> 531

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220054d03d1

<400> 3191

ttcgtccttt tttttttttt tttttttaac tcatcaaaaa ctgttttatt ttgccggtgc 60  
atcatattct catgttcata tcaatgaaac tcgacggctc taataactca agtttaaata 120  
ctggatcata aaatatgaca taagtataca cggaactaga aatgacaaat ttgcataaat 180  
gaactagctg cagcttacgc acttttgtca tacaactttg cctaaggcgg tgaagttcac 240  
cctgttttagc aggctcttaa ttggtcaaag tgcaggaggc ccacttaaca atggtgctgc 300  
ttgctaatac ggctcaagct tctccaagat gtcattggcg aataaatgag ccgtacaagt 360  
tatttcctta gaaataactg gctcttctgc cactgcaagc tgtgatagca aagactgcat 420  
gtgcgccatt atgggcccac cagaatcttt ggcttgattt tcacactgag tatcgtgttc 480  
aagctcttca cgttcttctg gaaaggcttg atgggcatca tacggaccgg a 531

<210> 3192

<211> 585

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220054d04a1

<400> 3192

ctcattttcg ttttacatgt tttgagaaag tgtgtctctc agaaaattat taatgtttga 60  
tgaaaagtga gaatctggac aaatactact gaattaagtt ttgatgctcc agaatggagt 120  
gttttagctt attacttttt atgggtcttgt tctatctgct ccaatccatg atatacataa 180  
caacaacaac aacaacaacc aagccttatc ccactagggtg aggttggcta catggaccac 240  
acgacgccat atgatatgca taaccctga ttgtaattta tatatatgtt tatatttata 300  
tttattttct cttgtaacac ttgtcttcct gattgcttgt gaagttgata aataagttgt 360  
gttttcccag gttggtagtg gaggagtcca gaaataagtt tgctaaccac gaaaaagaac 420  
ttgcatcctt gtctaaagga tttccaaatt tctcaggtgg tgggtctaac atcccgaaaa 480  
tagaatccga aattcaagaa gaggggtgat caagggcaaa cccacttaac acaaatcatc 540  
atgtagatgg atatggaaga gagaagacat ggaaaaggac ttgac 585

<210> 3193  
<211> 461  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220054d04d1

<400> 3193

ctggatgctg ctctgattca gaattgggtc gacgagcgta ctgctcgggtg gccggccttc 60  
gtcctttttt tttaacacgc gcatgtgata tttaattata agcatattgg atacaagaca 120  
agattgttca ttatactagc aagattatct tctaggagca ttatccattt actaaacctt 180  
aggagatcca acatgatatg cacaactttt tacaacttga cggcctatca agcacagcat 240  
ggtcaccttt gagacacact tggctcatgc gactctgttg cgtgagacgc agactcaggc 300  
atactgtaat gcatgaagag tgaccggccg ttgcctgcat cactggattg agtgtctacc 360  
tgtagtgcag cactttgttg agacatggag actgggtacg acccaagtga tgtaactggc 420  
tctgctacat catatctatg tgggtgacag ctgctagtcc a 461

<210> 3194  
 <211> 527  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220054d05a1

<400> 3194

tgttggtag tgctactgct gaagagagaa ccacgcagaa ctgacgcaat gggaagcaca 60  
 agtttgcttc atctattact tgggtgtgtt ttggctctgc tgagtgtgtc tcttgtggaa 120  
 ggagaagatg catacaaata ctacacgtgg actgtgacat atggcattct ttctccacta 180  
 ggtagtcctc agcaggtggg tcttatcgat ggtagcttct ctgggcctca actagacttg 240  
 gtaactaatg aaaatgttgt tctcaacctt gtaacaagt tagatgagcc atttcttctt 300  
 acttggaatg gcatcaaaca aaggaaaaac tcatggcaag atgggggtatt gggaaccaat 360  
 tgccccattc ctccaaactc aaattacaca tacaagtttc aggtcaagga tcagattgga 420  
 acctacacat actttccatc gacttcactg cataaagcag ctggagggtg tggaggactc 480  
 aatgtctacc atagatctgt catcccagtt tcttatccgt accctga 527

<210> 3195  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220054d05d1

<400> 3195

tccttaattt ctgctgttta ctgtatccat aaggaggagc gcgttcacaa ttgacgtgga 60  
 gccccacctg ttgtttgaac caattgcagg ggaaagcgct cttgactaac aactggact 120  
 ggctggatgat cagtgggcat ggggcgaaga atagcattat cacactacat gaaatacgg 180  
 gttcaaccgg ctcatctgta tcgacagcct ttactactaa atacacgccc tactacagt 240  
 ctgtgaaact gtcgatgtgc gtccctggat gactgaacta tacgaaactg atacactgta 300  
 gacattatcg agaaacacaa agtccggggc tgttattggg cacagagagc aaagccacat 360  
 gccaaactcg gcagcatgcy ttgatcttat agataacagt gtgagctc 408

<210> 3196  
 <211> 526

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220054d06a1  
 <400> 3196

gttgattggt gaagtttctc ttctcttgct ctgactccaa tatttccttt aaaataaaaa 60  
 tagcattctc ttctttcttc cttcttccat tcattcattc acattccacg ctttcttcag 120  
 agcctgcact tgttccaccc tttaacatac cactcctnct cttncacaat tctcttatcc 180  
 gtaatctggc actcttcaga gaagactttg taagataaaa agagaaatgg ccttagacca 240  
 gtattttgat gaggctgtgc cccagttgga ttcttggaa gataaatcgt ctctcgaaac 300  
 atggaaatgt ggcagtgcg atattgcaga ttccggataga aatgcctctg gtggctttga 360  
 ttgcaacata tgctggagt gtgtgcaaga tccagtgggc actctctgtg gccatctcta 420  
 ctgctggccc tgtatttaca aatggcttaa ttacaaaact gcctcttctg aanatgaaga 480  
 agagaagcaa ccatgtccag tctgcaaata agaaatctca cagtcg 526

<210> 3197  
 <211> 585  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054d06d1  
 <400> 3197

atctgactgg tcggcgggccc cccttttttt ttttttttga aataaacaaa cttcacattg 60  
 atctcattaa tgataaatcc atgcacaaa ggaaacaact ttaaacctag cttattaatt 120  
 actatacaat aactcgtact gacgacaaac tgttatatta ttcatgatca ttatgataca 180  
 taactattct tcacatgata cataatgaag tgttattacc attttttcta aaactaaaaa 240  
 tcttgattat gtaaatttta gtctgcatga ccatacacat gtacgtagtg gtatggaatg 300  
 atcatgtata cggacacatc aatctgcttt aaaatgtttt tcaattgatc ccagaagagt 360  
 ggaattaata taatcttgtg gaccgtgagc aggtaagcca ggaatcagca gaccaaccaa 420  
 cctgaaacta aagagaaacc atccttctct atagtggagt ccatttttgt acgctatggg 480  
 aaagctcctt attagttcca aaacagcatt gaacatcatg ggtatcacac accatggcga 540

gaaatagttc ttattcggct cttcttcgag aactctgagt tcata

585

<210> 3198

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054d07d1

<400> 3198

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ttcgtccttt tttttttttt ttttttggtt ctattttcat tcgaattcat tttatttata 120

tattaatatt atattcaaat gaaataaaaa gatattaaaa gataactaatt ataagaattt 180

gaaagtgaaa ttaataagtt attaaatgat taatcaatct ttttctacct gtacctgtag 240

tgaaaagagt tccatctggt cttgaatagc ttccttcaaa aggacttctg cttccccatt 300

gaatgtcttg gcagaagata tgagttcttt gaattgcggt ttattcgtgt gaaagtaagc 360

acgtaactca gcaggaaatt cccttacctg tccaatttct aatgaatcat gataaccatt 420

cgtttcagta taaataggca taatactgaa cttccacggg aagaggagct 470

<210> 3199

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054d08a1

<400> 3199

aaaccctttc aacagttaca aatgtatgca actccacaaa ggctctcttt ttgcatgaga 60

catcctctct cttaaaacct cctccttca gtcaaagctc cccaatcat actattccca 120

tttcaccact cacacttttt tctctcgcgt cttataataa cttcctcata tatacactta 180

ctctccttca atagggtaac ttttgaattt ggtgcccccc ccaatctttt tttttctcta 240

ttttgttttg gagtttgga catatatagt attgaagcct aaaagatttt gaagaaaaaa 300

gcatgagaaa actctgaagc accaacacat ggtggcatgg agatagaagc aacacggcct 360

tcagctggga atggttcaac aataacccta ccagggttga gtcctctgag tgagaccctt 420

tggagggaaa aggccaacac tgcagagatc attggtgatg tctcagcaag gctcacatgg 480

aaggatctga ctgtgatggc cactctcagc aacgggtgaga cacagaatgt ttt

533

<210> 3200

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054d08d1

<400> 3200

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atcacctttt tggacgcaag gaaaagggcc ccaagttaat ttaaggggac cctttaaccc 180

aaaatttata aggggagacc tcccaaactc aaaaatttta tagacgcac tcaaactggg 240

gcttttttct tttacccta aacattgaga aacccaaaaa gggtagcccc ccatcccagc 300

accacttttt acgcttgat caactcaacc tccgagaacc gaaatttttt cctggcacat 360

tcgacttgac ccctattcaa tagtgggaaa aagatcccct tgaaatgacc ccccttg 417

<210> 3201

<211> 505

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054d09a1

<400> 3201

caaaaagctc ttttccttct aaatttgatt ccttagttca gcattctatt attatatatg 60

gcttcttcac ctctctcaga aaacaaaaac ctagaggag tagctggtgg tgccggagag 120

aaaccattc cacttggtga gaaccgtttg gagaagcatg ctgcattctt ttgacttgaa 180

taaagatggg gtcattctacc catgggagac ttttaaaggg ttgcgtgaaa tcgggactgg 240

ggttttgctg tccgttgag gtgctatctt catcaatgtg tttctcagtc agagtactcg 300

tcccggaaag tttccatcta tactttttcc aattgaaatt aaaaatatcc aacgcggcaa 360

acacggctgt gacactggag tctacgatac tgaaggaagg tttgtacctc caaaatttga 420

agaaaatttt aacaagcatg cacatacaca tccaaatgct ttgacatatg atgagttaac 480

ggagatgata aaggcaaata gagag 505

<210> 3202  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220054d09d1

<400> 3202

taggccggcg gtcgcccttt ttttttaaatt ttttaaattt ttttatactt attaacttta 60  
 ttctgagcat ctcgggccgc tcgaggata aaggacttga actgaactta gaagcatgag 120  
 gaaacacacg caatcaactg aatagtatgc atagaaacaa gatgacgtaa ctatatatat 180  
 tagaacgaaa attcctaacc atttttcaaaa ggaaaaacat gaaattctaa ggtccactg 240  
 ttgtgacctg ctgccattcc ccataactg ctgccttcca caatgtgaca ttgacggttc 300  
 catcatccac agacaatatg attcctgtta atgaccatga gaccctccaa acacgggtgt 360  
 tgaaatcatt caaaaccttt ggttaccact gatccactg tttcaccagg gagcatatta 420  
 tca 423

<210> 3203  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220054d10a1

<400> 3203

cctaaacata aactgaattt cccaaatccc cttcccaatt ttcacaaaaa cctaatactc 60  
 ccaaaccaat cttcgatcat ggccgccgaa tcacaacctc aactaatcga agagagaaga 120  
 gaggagcaag aacttaagtt cctggaaatt gggcaatttc gcgaccatcc aggccctgat 180  
 gcgctgcgcc atcctctact cctacgccaa ggagcgcgcg ggtcctctga agcccggcgt 240  
 caacaccgtc gaggaggccg tgaagaccgt cgtggctccg gtctacgaca ggttccacct 300  
 cgtccccggc gaggtcctca aatacgccga tcgcaaggtc gccgaattgg accgccacgt 360  
 tccttccaac gtgaagaagg tctcctccca ggcccgtcc gtcgtctccg aagtccgtcg 420  
 tgatggtgtc tccgcctacg ccaaaatcgt ttacttgaag tatgagccca cggcggagca 480  
 gtgtgccgtc ttcgcatgga g 501

<210> 3204  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220054d10d1

<400> 3204

tttctttcat tttttgacat tcaagataga taaattcttg acttaaaaaa tgaaagaaag 60  
 aaatctttac acattacttc tgtttagcaga aaattgaata agaaatttca acttttctga 120  
 tgaataccaa tgaattccaa togatcagta attccttaca gggatcaatac catcatcagc 180  
 ctaaatagaag atcgtatctt gaattttacg gctctccaga aaacagtagg gaaggaacta 240  
 agtttagctgc aacatcagtt atcctagcgt ggcattggtta tgagctcaaa tgcattggtg 300  
 tttccattat atcattttca caaaatttcc atgatccatc gtcttgcttc ttcataacat 360  
 acttaacttt gtaagtgaga taatagtttg ggctcttctg ctgtgaaccg tcaacaagtt 420  
 cagatgcttc ctctaagaga gcttcaattt ctgccatgc atctccattt ccatctgata 480  
 gaatgtcagc 490

<210> 3205  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220054d11a1

<400> 3205

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 gaagtcagac tcgaagtctc ggatgtcgtt gtcattcgtg tctcatgct tctcggcaa 120  
 ctaaagcttc agaactgcat ccatgatcaa cgggagcacc tactcatcgc cttgaagtag 180  
 ttctcgatct gcgctttcag gtatgccaaag ggaaattgaa cggcaatggt gtaaaacaac 240  
 gtcgttagaa tgagaagaaa gagattaatt gatataactt tgatgtccac gttcgcgatt 300  
 tggggaacag agagatgaga atgccaaga ggaagaaaaa tgagaaatag tctacagagt 360  
 tgtggcattc agattcagat tcaaattcca atttcaaaaa cctaaactct gtagccaaaa 420  
 ttccaggatt gtggcaaaat ctcttgatcc tgcattgttg tttctgtac ttgctttt 478

<210> 3206  
<211> 526  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054d12a1

<400> 3206

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tgaaaaggca tctcaccgga gaattcgaga agaaatatga gcccaaccatc ggtgtggagg 180  
ttcaccatt ggattttttc acaaactgtg gaaagattcg attttactgc tgggatactg 240  
ctggacagga gaaatttggg ggccctcagag atggatacta tatccatgga caatgtgcta 300  
ttatcatgtt tgatgttact gcccggctaa catacaaaaa tgttcccacc tggcaccgtg 360  
atctttgcag ggtctgtgag aacatcccaa ttgttctttg cggtacaag gttgatgtca 420  
agaacaggca agttaaggca aagcagggtta cattccacag gaagaagaat ttgagtacta 480  
tgagatttca gctaagagca acttcaactt tgaaaagcca ttctta 526

<210> 3207  
<211> 525  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220054e01a1

<400> 3207

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agaacccttc gttcctgctt cttcttggag accttgtgct gatcagcgga attggaacc 180  
caatggtatg tgtggttgaa atttaacaat gattcatatt gtgtatgttt ataagtgtgc 240  
aactacaaaa ggaaaataaa agttcaagct gatactcata gcctgctctc ttgtactgta 300  
ctccaataga gggaaaaaat ggatacattt tgggttactgc aaatgggtgg atcaatcaac 360  
aacgagtagc tgtttgtaat gctgtcgttg tggctcgttt actcaattca actttagtta 420  
tccccaaatt tatgtacagt agtgtatgga gagatgtgag gtaatgccg tctattctct 480

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525

<210> 3208

<211> 501

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220054e01d1

<400> 3208

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ggaaaagcca tctttttctc aacaatgtct ttgtcatttg atccaatagc gcttcggttag 120

ataggaacag atttgataaa tattgataac tctcagatag agtattagaa cggaaaaatc 180

cattagataa tgaactattg attctaagcc atctctggca atgaatcaac aattcaaaat 240

gcttttcttg cgtattcttg ataaaccagt gtttatatat agatgtagga agatctgttt 300

gggaagtaag aagttccctt gacatctctt catctgtaaa gaattgtcga tgtgaaaaca 360

cagagacaaa aggctgatct ttgaatagga aaaagagtgg atccgcgggg tcccaaata 420

attggcttat tcgaaaaaag cctgtttctt tggaagatct atctcgtgtc tgggtactgca 480

tggntccacc ctgcaagaac t 501

<210> 3209

<211> 525

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054e02a1

<400> 3209

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aattgttgtg attcaggagt ggtgggggtg ggattacgaa attaagaacc atgccgtgaa 180

gatttctcag cttggtagtg ggtttaaagc tcttattcca gatttataca gaggaaaggt 240

tgggtctggat gttgctgaag ctcagcattt gatggatggc cttgattggc aagggtgctgt 300

gaaggatatt gctgcttcgg gtaactggct taaagcaaata ggctcaaaga aggctggtgt 360

aactggattt tgtatgggag gtgctctctc tattgccagt tctgtcttgg ttcaagaggt 420  
 tgacgcttct gtagcattct atggagttcc tgcttttaac ttgctgacct tgacacgcca 480  
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<210> 3210  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054e02d1  
 <400> 3210

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 tgcttcactc acatcataac ccccatatct atttatttag gtaataacac actcgacagt 120  
 aaagataaat aacaacagaa cataaaaacc agaagtactt atatctccct cacttcatct 180  
 tcgttctcgt cctcactcca gcagcatttc agaatagacc taggagatgc actaccatcg 240  
 cagccttgaa caaatgtttg gtacacaact gcaccaccta ctccaagctc ttcagtgtctc 300  
 ctctcaccac agtagtatcc tttgatgtct aagggaattt tattaagctt ctccaccatgc 360  
 atgtcaatgt gcaaagcaac agaaaactct gctggacaaa agcaagctaa aatcctttcc 420  
 acaagttcac ctagagccat gtcattaaag tcataacaa cagcttcaaa acttgcgtaa 480  
 ctgaaacat cttcaggagt gacatggatg gtggatatag cac 523

<210> 3211  
 <211> 554  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054e03a1  
 <400> 3211

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 tctgtcatca atgggaatga ttccctaact ggtcacatca tatctacaac tattggaggc 180  
 aaaaatgggg aacccaaaca gactattagc tacatggcag aacgggttgt aggaactgga 240  
 tcatttggaa tcgttttcca ggcaaaatgc ttggaaactg gggaggcagt ggcaattaaa 300

aagggttttac aagacagaag atacaagaat cgtgaactgc agttaatgcy tgtgatggat 360  
catccaaatg tgatctcttt gaagcattgt ttcttttcaa ctacaagtac agatgaactt 420  
tttctcaatt tggatgatgga gtatgttcca gagtccatgt atagagtctt aaagcactat 480  
agcaatgcta atcaaagaat gccaatcatc tacgtaaaac tttatttgta ccagattttc 540  
aggggggtgg ctta 554

<210> 3212  
<211> 549  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054e03d1

<400> 3212

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ttgttaacaa ttcccccttc tgggttaaag acgtctcacc ccataggcca tttcatatca 180  
ttatatcctg cctattactc aaatatctca ttctgaaac aagaattaac aacatcaact 240  
acaaaggatc gacaattagc atgggagctt tgggtgtcct acaagccagt gtaagattct 300  
ttgcaggaga agtcctgcac acgatatctt taagagctgg acgaagctcc tcgctacaga 360  
actggttata ctccaaggag tcaccgttgt ctttcttaac ctgcaccacc aaaaacgact 420  
gcgtcacggc gtgcacgtgc gcagcaatag cgagtttacc ttttcgccct atatcttgac 480  
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gttccaatc 549

<210> 3213  
<211> 556  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054e04a1

<400> 3213

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ggttgggact gcccggtgt gatgaaacta atgagaaaag ttcattccagt agtggatctg 180  
 ttgttagaag caacaagaga tcttcaccag aacccagtgt ggaagagtcc aggtgcaact 240  
 ctaatggttc ttcagattct accaccacaa gtgatcatga tcaagacagt gccaacctg 300  
 aaaaggtaca agtagtgggg tggccaccaa ttagatcttt taggaagaac agtctgcaac 360  
 aacagaagaa ggtggagcag ctgcagggtg atggaggtgg aatgtacgtg aaagtgagca 420  
 tggctgggtg accttacttg aggaagatag atctcaaggt ttacaatagc taccagaaac 480  
 tcctcgagc cttgcaaagt ttgttcacgt gcacatttgg tgaatattca gagagggaag 540  
 gttatcatgg atctga 556

<210> 3214  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054e04d1  
 <400> 3214

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 ctgggacaac ccaaaaaaaaa accaaaataa gggcccgga aaaaagcagg caataacagc 180  
 cggcgaaaaa acaaaaaggc ccaaaacgat cgccccccc aacagaagaa cagccagaaa 240  
 ggggaatggc accccccctg tagcagcaca aaaaccgccg ctgaagcggg ggccacaccc 300  
 agagggaccc ccaaaaaaag caacgcccc aagggcgga ccaaaaaaaaa ctccccttac 360  
 ataaaagaaa cgggggggg 379

<210> 3215  
 <211> 521  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054e05a1  
 <400> 3215

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acgagcttct gaaattccaa cttcgccctt cttctctgtg tatattcttt tttattttatt 180  
tattattatt tctattatatt tttcggggag gttagctcca tgcctagtcc caagagcagc 240  
cgcagcggcc agatcgagag tcaccggagg ggaaggctgt cgtccttcca cggccagtgc 300  
gcgatgtctg tcggtcagct ccaccgtccg aagacggttt ccgacctccc gtcgctcaga 360  
agcctcgccg gaacggcgcc ggcgccatg ccggagggat tgcctagaca gccgccgaag 420  
atgctgctga aggtgacggt gctgagaagc ctgcgccccg tgcaggtgct gatgacgccg 480  
ggatccaccg tccgcgacct gatagcggcg gcggtgcggc a 521

<210> 3216  
<211> 540  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220054e05d1  
<400> 3216

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tttccatgta aaacatttcc ttgtttctc aacatgtata tgtagtccaa tgtcaaacaa 180  
cattttacatt ctcttagag aatcgagctc ctaatgtaac aaaattatac ttattctaca 240  
tttgaaaagt taacaagtat tggcaaggcc aagttgtgat gcacctctca tctcaccttt 300  
tgctgcctga aacagtttct ttcacagcac caacagactc caaaaactgg tcaagggatg 360  
atagggctct catgtcatgc ggaggaaaat agctggctga ctttgccatg attgatgaga 420  
agagaaggga cagtgaatgc catgcatcat tactttgccc caaaaactca ttcaaaagtg 480  
caaacgcagc cctgaaatca gacctacttg cactcattgg agcagcatag tgagcaggga 540

<210> 3217  
<211> 495  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220054e06a1  
<400> 3217

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gtataaaaaa gaaggcactt ccctcaaaca gaaactaccc tctatctctc tcttttcaag 120  
 ccttaaatga gtaaaaaaga gtgaagaaag gaaagaaagg agcaccattt ttgggtttgag 180  
 aaacataatt agcaagagag ttcaaaatgg ggaagagaga gtttaatggg gtggtgttga 240  
 tgatgctgtg tttgtgggtt tgcggtgtca cagcctctgt gacttatgac cacaaagcca 300  
 ttgtggttga tggcaagaga agaattttga tctctggctc cattcattat cctagaagca 360  
 cacctcaaat gtggccagac cttattcaaa aggccaaaga tggaggcctt gatgtcattc 420  
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<210> 3218  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054e06d1  
 <400> 3218

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 atacgaacaa ttgttaaacc gcatatacgt acatatctca aatgctataa tggggagtat 180  
 ccaagtatat gcaagatcag cgattgatcg ctatgcatct aggaccgtca tagtgaatag 240  
 caccatgagg actctactac tggggccaga tgtaagatga tgctttcaga tctcgccttg 300  
 aacagcctgc ggtccaaggg atctagggcc ctaaatagata tacgcaggca ataggaatac 360  
 cgcc 364

<210> 3219  
 <211> 541  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054e07a1  
 <400> 3219

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gcgataggaa cgaaaagaaa gcgcaagata ttaagctttg gggagttttc atcttcggat 180  
 taatcggcgc caccgtcact gctttctccc tgtccaggtc gcaggcaaaa ggaggcagct 240  
 ctttccgaac agcatttcaa gaagaagcat ggaagaggta caataagcga ttgcaagagg 300  
 agtatgagga ggagatggag aggggtggaac gaataagacg tatgcaaagt gtgtttaata 360  
 gagaaagga taagcataga agaaactacg agagctggaa ggaaaatggt gccggtgcac 420  
 atcatcaaca tttccaaaga gatgattggt attggaaggc tgaagcatcc ttagagagc 480  
 agtgggcaa tcaacatact caaagaggga gcggaaacta ttcgttatca catcactact 540  
 c 541

<210> 3220  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054e07d1  
 <400> 3220

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 agcataaact ctgctttctt gggcacaatt cttcgttatc tacattggct agaaaaatct 180  
 gcagtgatct caccagaat atgggttccc accagggtgt cctcccatat ccctgcttgg 240  
 cacatctcta ctgggagcat tgttcgacca tctgaattt tgttgaaacc cttccatgtt 300  
 ctggtttgat ggtggccctc ccatgttccc tgcgttagta ttctgaggca caccaccacc 360  
 aggaccattg ccaccacct 379

<210> 3221  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054e08a1  
 <400> 3221

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gtctcccaag ccgattaccc tgactactac tttcgcatta ccaacagcga acacatgact 180  
gatctcaaag aaaagttcaa ggcgatgtgt gaaaagtcca tgataaagaa gcgatacatg 240  
cacctgacgg aggagtttct gaaagagaac ccgaacatgt gcgagtacat ggcgccatcg 300  
ctggacgtga gacaagacgt agtgggtgatg gaggtgccga agctgggaaa acaagccgca 360  
acgaaagcga ttaaggagtg ggggtcaacca aagtcaaaga tcacacacct tgtgttctgc 420  
accacttcag gcgtggacat gcccgagca gattaccagc tcacg 465

<210> 3222  
<211> 369  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054e08d1

<400> 3222

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agacaacact actcagctga gcagttttta tctcgtactt tgacatgaaa gtgtcataaa 180  
ggccgataaa agcatatact gttaactcac acgaccttag ggctaaagcc cagggcatta 240  
gttggactta aacgggggaca cgttctagca atttttgtta aaacactgct aattttcgga 300  
attggttcaa aatccaagag ccttgtttct gagaaaccgc acatgtttgt gaaccagcca 360  
ccaccacca 369

<210> 3223  
<211> 461  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054e09a1

<400> 3223

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ttgattagtt atagcaacca ctggtttggga ttaatctaac tcacttctga aaggatgaag 180  
accggtttgt gtaaggattc cgaacatgac agtacctgaa tttcaaaatc cttacacaaa 240

ccggcggctc gagggagctc acctctatta caactgtccc agtggaaact attttgaata 300  
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tgagaatttt gtgggctctt caccagaaga tctgatcaag atgcacttat tgcaactagg 420  
gagtccttgc aaggtgaaaa actcaggagt tctgtgtgca c 461

<210> 3224  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054e09d1  
<400> 3224

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aaatgagggg aaaagaaaac aaacattttt ttcctgataa agctaaagct atagccattt 180  
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aaacacacac atgaacatgg aagaaaactt agtatgccca ggtccaaagg gcgtgatctt 300  
cctcagaaaa tccaaaatta caagaacttt caggcgggct ggagtaatcc acatcttctt 360  
caagtttggg aaagaggtag caagggtaga gacttttgct gaggttatct tcttcatctt 420  
gtgacatatc cgattgatca tgctcaaaca 450

<210> 3225  
<211> 504  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054e10a1  
<400> 3225

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aagaccggtt tgtgttagga ttccgaacat gacagtgcct gaatttcaaa atccttacac 240  
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atatcaggct tttgctatag ggtctcgctc tcaagctgga tagacatatt tggaacgcat 360  
 gtttgagaat tttgtgggct cttcacgaga agatctgac aagatgcacc tattgcaact 420  
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<210> 3226  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054e10d1  
 <400> 3226

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 aacatacata ctgatcgga agtgctcggt catttgatac tgaaccacat ttccagccca 180  
 tcagtgatct tccaactttg tcaacaatct gagttcttgc tcggcttctg gccaatggac 240  
 agtcacggct ttactgcaac aaatttctat aactgcccc ttgacgatct tgcgttgaat 300  
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<210> 3227  
 <211> 557  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054e11a1  
 <400> 3227

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 gaatgtgata aggcattgta tccaatgccataaagaagta gtgatacatc aacagcagaa 360

tcaggatctg aagtcgaaga tattacttct cccaagcaag tgggaattat acaaaccctaa 420  
 ggttaactcc tgtccacgaa gaagcaagat tgattggtag ggctagtggg ttctctgagt 480  
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<210> 3228  
 <211> 603  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054e12a1  
 <400> 3228

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 aaataaagat tcattagaat attataaaat aacaaataat agaacaaaac aagattcttt 180  
 agttatatat gtaaaaaaaaa atgggtttatt tataagaata catattccat tctatatcaa 240  
 aacaaaatat aaaaatttgg aatagattct atgaaatctc aaaaaatccc gctattcaat 300  
 tattcattaa acatatgaat attagtgcatt attattttat cgattagatt aaatagatta 360  
 tctatatata tagatagata tctatttgaa ttgcttcatt cgcgaggagc cgtatgaggt 420  
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 cccccaaga accagatttc gtaaacaaca tagaggacga atgaaaggaa taccctatcg 540  
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<210> 3229  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054f01a1  
 <400> 3229

cttttgcaga attcaaagca gtggagaaca aacgaatggg gacgaatgaa gaacagaggc 60  
 acagtcccag agaccagaag atcctcccat tagcagatta caatggccaa agcttgggaa 120

cgcttttcag cccaaggctc agatctgggg ctgctgtggc tggttgggat gaagaggcac 180  
 tgatgttggc cagccgtcat gcttgaagac acgccgtatt gagatcccaa gcaccagaag 240  
 cgctacgttt ggcaactccag aaaccacta aagtcacaa ggagacgtac agctctgagg 300  
 agtacacacg caccaatccg ttaggtctt gaacctgatg cagaagaaac tacgagaaaa 360  
 ga 362

<210> 3230  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054f01d1

<400> 3230

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 gtcaagtcaa gcattatgat acatcagacc ccaaaatacc aacaacacta ctcagctgag 120  
 cagttattat atcgtacttt cacatgaaag tgtcataaag gcagataaaa gcatatacat 180  
 tcaacacaca cgaccataag gctcaagcac aaggcaatag tatgacttaa acggtgacac 240  
 atttcagcaa ttattcttaa aacactgcag attttctgaa tttgttcaaa atacaagagc 300  
 cttgttactg tagaaccaca cattcttgtg aaccagccac caccaccaca gtaggggtgtt 360  
 cgcttgtgct gactgcatca acttcttttt tgacactttg aacattgaca tcttccaatt 420  
 caccacagcc aatggcttca aaaacaagat cattgacttc ttgaaacctc tcttgagaaa 480  
 gggacacctc agcaagaagc ct 502

<210> 3231  
 <211> 591  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054f02a1

<400> 3231

ggcaagtgtt cttcaaaaaa ttgctagttt gtactcactt gattgcttca tcttaaata 60  
 ttctgtaagt gaggttatgc ctggatggag taatactgat gatggcagta ttattattta 120  
 tctgatttct gataagaagg agttcttacc taaattaagc agctataatt ggctgggtgt 180

tgttctaaat gttggaggcg aaagcttatg tcacaatcca aatatacttc agattgaaaa 240  
 cttagaggag tttccattga ccatatgccca cttaaataaa agatcaattg gaaccaatgc 300  
 tgtgactgtg agttatacaa tgaagccttc tcgtgtcgaa gattttgcaa agaggggtgc 360  
 atttcctttg tgtcctactc aaaatgggtt gatgtttgtg cctctcgcat ccaagctgcc 420  
 tttatcatct caattaaagg gtgttgacat agttcttcac aagccactga tgaaatatta 480  
 tcaattgaag ataataatat tacttttaca cagaacatcc aagcattgca aagatacttg 540  
 gatcagcacc aggatttttg tgtattgatc cactgagaat gtttattctt a 591

<210> 3232  
 <211> 542  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054f02d1  
 <400> 3232

atgcgcaata tgtaaaggt gtatatatgt ggtgacaggg taaataattt acaaaagtgt 60  
 gacccggaga tggtgtatgg agagcactca aaggatgcag ttgctcacct ttcacaatag 120  
 ttggtctcaa gctaaagcat ttacacacta taattgaggt ggagtggatt cccattgata 180  
 aatgtagatg tcagctcagc tcccatccaa attgttggtt tcttgagttt tgcttaatta 240  
 cgatcagttg aagtcgaagt actcggaccc gatatcacga tgacaatgat agatcaggag 300  
 gggacggtat gtatgttgaa ttgatataga agccattact gattgaaaga caaagggtta 360  
 ctaactcgtc ctgcaaatca aggatgctgc tataacttcg agtgttcct ccaagggcac 420  
 ccaccatcaa aagcatgttc taacacatct tccactcgtt tagcaagcag gatctccata 480  
 ttggatagca cagacgatgg tacttcaacc aagtccttca agttcctttc aggtagaata 540  
 ac 542

<210> 3233  
 <211> 551  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054f03a1  
 <400> 3233

tggaatttga aggttatcat catcatttat agatattatt attattataa gaagttcatc 60  
 agaaatattc aatggggagc ttgaaactg aactgatgaa tcttaaggcc acagagttga 120  
 ggttgggact gcccggctgt gatgaaacta atgagaaaag ttcattccagt agtggatctg 180  
 ttgttagaag caacaagaga tcttcaccag aacccagtgt ggaagagtcc aggtgcaact 240  
 ctaatggttc ttcagattct accaccacaa gtgatcatga tcaagacagt gccaacctg 300  
 aaaaggtaca agtagtgggg tggccaccaa ttatatcttt taggaagaac agtctgcaac 360  
 aacagaagaa ggtggagcat ctgcagggtg atggaggtgg aatgcacgtg aaagtgagca 420  
 tggctggtgc accttacttg aggaagatag atctgaggtt tacaatagct acccagaact 480  
 cctcgagggc ttgcaaagtt tgttacgtgc acatttggtg aatattcaga gagggaaggg 540  
 ttcaatggat c 551

<210> 3234  
 <211> 507  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220054f03d1  
  
 <400> 3234

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 tctgagtaca gaacaaacca ttcaccatta tggctatgat aatctttcct tagcaaacct 120  
 attataaaac aaggggtgaac atatgtgaat tgtggaaggc ttgtacaata tagtccttga 180  
 gaagcaaggt caacctgtat tcttcatccc tgcagcaatc ccatttatgg tgataagcaa 240  
 agcatctctg atcttacggg tgtcatcatc acgtcttaac ctcttgagta tctccacctg 300  
 caacatgttc aagggattaa ggaagggaag tctattctca attagcctcc tcaagctcct 360  
 attattctgc tgaagtttct cgtgccact aataaccatg acaaactttt cagctgtcat 420  
 gagtcactt cttagtctat ggccaagctc ttgcctctcc ttgacacaa ggacttcac 480  
 atagtgtctg gctataggaa tgtcagc 507

<210> 3235  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054f04a1

<400> 3235

ctccaaacac accaattgca ttgcatcatt cattcacaat ggcaatctcc tccacttcca 60  
actacctcat tcccacaaaa tctctaattcc cccaatccca ccccttcatt gccaacacca 120  
ggcccgccct ccggcccaag cctgggtccat acccttcctt ctttgccggt cacgccgccc 180  
agcccgccaa aaaccccgctc gggtaccgag aagctcaagc gcctggccca acaaccttcc 240  
ccggccttgg cccggggtac gaaatggggc gcggacagct ggaagtcaaa gaaagccctg 300  
ccgtgccccg aatacccgag ccaggaggag ctggagcccc tgctcaaaac cctcgaggct 360  
gtttcttcaa tcgtcttcgg cgggtaggcc acgacttggg aagagcatcg tcgccgatgc 420  
cgccatggga aatgcctctc ctctcaggg cggagactgt gctgagagct gcaaggaggt 480  
tattggcaac acca 494

<210> 3236

<211> 493

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220054f04d1

<400> 3236

cttcgtcctt tttttttaa gtagtagttc tagcggatga ctcgcttttt tcaaattggc 60  
cttcattact aatgaaaagg taacagagag aatatacgag ctctgtctat agcaaattgt 120  
attaatcggt cggtgatcaa ggtccatcta cttacgcgta tggacactat tttttgttgg 180  
gcactaataa ttcacactga ctaacgcgat cattaatcct caagagtgc ccccgattg 240  
gtgaccggg caatacgcac tantaactga tctccttggg tctcatgaaa gaaacactta 300  
gatagttcca tggctctatg catcactctt gcaacactca gagcctttac cataattact 360  
atcgccgagt gcgctttacc ttctgactat agtaaataatg tgcattctct agttttggat 420  
cgggattgtc atcgctcaaac tctatccatt tggcattttc ttgcttgacc catcccacat 480  
aatgtcctga atc 493

<210> 3237

<211> 446

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054f05a1

<400> 3237

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ggacgaagaa aacgggagca acgtctgtgg ctcaatcgat ttcggcacgg cggaggccgt 120  
cgaatacgtt cgctccctca ccgacgttgg cgccatgacg cgccttcttc acgaatgcat 180  
cgctcaccag agagcgggtg acgttgaact cgacgagctt ctgtcgcagc gcaccgacct 240  
cgaccgacac ctcttgacg tccagcgctc ctccgacgtc ctcgacatcg tcaactccga 300  
cgccgactac atgtctctcca acgtcggctt cacctccgac ctgcccgacc aggtcagacg 360  
caaggtccgc gagcttgatc tagcccagtc gcgcgtccgc aacacgctcc tccgtatcga 420  
cgccatcgtc gaacgcgcca actccc 446

<210> 3238  
<211> 528  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054f05d1

<400> 3238

gttgtaaact tcatttctat tacacccgcg gatttaatag tgatatatat ctaactttta 60  
catgatctgc atcataggta tgcctaaac atagggctctg tagatgttaa aactaaacta 120  
gttctttggt gaactaagta caaaatcaga caactaaaac tgctctatac tattaatcat 180  
ctctgcttta caagttctct tgtaatgtcc agtttgatta caccgactac aatgcactgt 240  
atgtttctcg cgattaaggt catccacaca catccgtttc tcagggcgtc ctggtggctg 300  
ccgtaatttt ggtggcctta caacaaggat attatcatcc atagaagagt tgctgtttt 360  
actccattca agttttccgg ggatggggtg tatagtctct gcataggtat ccctgaaact 420  
tgcagcagta aaacacttct gggaaaatgc atagacatcc tttcgacatg agataagagc 480  
agcagcagca tgggaacatg gaataccatt aagctgcca tcacggca 528

<210> 3239  
<211> 283

<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054f06a1  
<400> 3239

gcttggagat tccaacatct ttcttattcc ttcactcact cctttctgcg cttggctatg 60  
ggaaaaacgc acagcttcat cgcagaggag caggatccga cccggcgcca cctggatccc 120  
ccacccgggt taactgctga agagtacgag gacctcacac cttcgtgct ggagcaccac 180  
acttatctcc gtacaccac ccggcatagc tccttcattc ttgcgaggg tatccacgct 240  
ccaccacag cggtgtgggc cgtcgtgcgc tgcttctaca acc 283

<210> 3240  
<211> 382  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054f06d1  
<400> 3240

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tcgttttttag tttatgattt ttttctttct tattgctgag tgtgtcaata ccagggtcgc 120  
ctcataacgg atgtattacc ctaccgcaga tctatcaacc cttttggata ccctaagagt 180  
gggctattac aacatccttt ccgaatctta cgtttttgtc tttttcacag gtcttgatgc 240  
tcgtatattc gactatgaca gtggcaactg ttggttcaac tcccagtgt gtcacttctg 300  
aatctgttac atgatagtga ggcccttgcg acactgtatg cttgcagtga atatttgagt 360  
ggattctgga tccagattcc ac 382

<210> 3241  
<211> 448  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054f08d1  
<400> 3241

aattgaacca cattttattg aatccaatat ctatgatgac aacaactatt ataagttcga 60  
gctcttaaaa gcttattttt caaggaagtg ctgcttttaa ggagcggggt aaaacttcca 120

gttcttttcag tccctcttga ggagatttgg cctcaccaag caccttcact atagcactgc 180  
 caacaatcac accatcagct ccccatcccc ctacctgttt cacatgctca ggttttgata 240  
 ttccaaaacc aactgcgaca ggtttagtag ttgcctcttt aatttcctgt agaagggact 300  
 gaacagaacc actaacagat gcgcgggctc cagtgacccc cactgagctc acaagatata 360  
 caaatccttc tgccacatca acaatggctt tcattcggtc tgggtggaatg gtggctgttg 420  
 tgaggagtac cagttcaatc catgtttc 448

<210> 3242  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054f09a1  
 <400> 3242

atctgctact gccctgggtc accataacca taatcatatc ccaaaccctaa gccaacccag 60  
 cacaacacag caccacctcc tatcacataa taacaaccgt aaccttaacc ttaaaccctcc 120  
 acaagattaa tgtttgggac cccgggattg ggatcccca ctacaaaaag aaaccgggtg 180  
 tttgctgttt tgggcagagc cggtcgggaa cactcatgac gcggtgtagc ttgctttgca 240  
 aacacggtgg gcacaggtag agaacctgcc ctaccctgtg ggctaagcta tctgggggtc 300  
 gattcaccga cgggttgatg cggaagagcg ccagcatggg caacctaac cactacgctg 360  
 gttccgggtc ggccccgccc catgacggga tgaataaccc gggatcacc ggtgagacct 420  
 ccgatcac 428

<210> 3243  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054f09d1  
 <400> 3243

gtgcctatgc tctggttcat aaccgggtcg acgtgctcac tggtcggtag gtcggcggtc 60  
 gccctttttt tttttttttt tttttttttt ttttagaaa gcatagacta tcatagagga 120  
 ttcgttggtta ttttttgagg aacaaggaat ttagaggtat gggatgatag ccaactacag 180

taaatgcatc ctttccacat aagagtgggt caaccattgg caaagaggct cccacatcc 240  
 cacaaaacac cctgaatttc ccttttcagc caaaaatggg aaactgaatg tgtgcaacag 300  
 gtcctgcact gcctgtctca ccagagaaga tcctgtcacc ttgctccgac gaccccatcc 360  
 tgtgataatg tctacccgac tagggcgaat cccggatacc agcatacgtt ggcgaaacca 420  
 agcaagtgtc ctagacaatg ctgtcacagc agttccatca gacatgacat gaagatttat 480  
 aagccaatag cgagagcttt tttccttaac agca 514

<210> 3244  
 <211> 344  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220054f10a1  
 <400> 3244

cgagagactca ttgggctttg ccgcttgctt tgatcttcac tggagctgcc ggcggtggag 60  
 cccaaggccc atccacctgt ccgcgcctt ccacacccca gtgttcacca cctgccatcc 120  
 agtcttctcc gccacctgtt gcttactcac ctctccggc tcagtctcca ccaccagctt 180  
 gcactccac accagcccca ctccaggtct ctccccctgc ctgcccttct ccttcattctg 240  
 caccaccgg atatgctccc cctgcctctg ctctgcggg atctccacca cgccgattct 300  
 nctccccctg cctgccctcc tgcggcatct cctacccag ccac 344

<210> 3245  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054f10d1  
 <400> 3245

acatcaaact caatttttta ttctgaaaat cagttctaga aaatcaaatt gatttatttg 60  
 attttcttta catgccctaa tgttgtaaga catgccccac aacaaattta tatctacttt 120  
 taggagtact tccccacatc caaaatttca acttccttca catcctttcc cttccccaat 180  
 tgctgtaaaa tatttagcga attcgacatc tcacatttca gttagctgga caaatccag 240

ccacagagaa tacgagctcg acttgggtacg ctaaaaaaag gaatacatga aaaccaccct 300  
 ttaaaagcct aaacaacaaa acttgaaaaa aggggaaaat tttcacaccc acaaaataat 360  
 cccagtattt gggaataaac ccaattttga tgcctcctat tatggcatcc ccttttccca 420  
 ccttaggtcc caaagaaacc agcacctcat cgtcttcttc agcttttaca ctcttcagca 480  
 ctttcgata 489

<210> 3246  
 <211> 541  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054f11a1

<400> 3246

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 cttgcaatgg tgagccagat tgcataaatt caagccaaaa ctgtggaaca tctaccctga 120  
 tgggatgctt gaagagattt acaagagcag aaagattggg gtcagaccaa aaatttttct 180  
 gtcggcagtg tcaggtgagg caagaaactc tcaaacagat gtccattagg aagcttcccc 240  
 ttgtttcttg cttccatata aaaagatttg agcactcttc aacaagaaag atgtcaagga 300  
 aagtggatcg ctacctgcag ttcccatttt cactggacat gtctccttat ctatcatcaa 360  
 caattttaag gaatcgattt gggaatagga tcttttcttt tgatggggat gagccggatg 420  
 cttcagatga gttgtgttca aagtttgagt ttgttgccgt tggcacgcac agtggttaagc 480  
 tagacgctgg ccattattgt cacttatctg cgaataagta atcagtggtc cagtgtgatg 540  
 a 541

<210> 3247  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220054f12a1

<400> 3247

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 accgctcgta agtccacagg aggaaaggct cctaggaagc agcttgcaac caaggctgca 120

cgtaagtctg caccaactac tgggtggtgtg aagaagcccc accgttatcg tcttggtacc 180  
gttgctcttc gtgagattag gaaataccag aagagtaccg agcttttgat ccggaagctc 240  
cccttcagga ggctgggttcg tgaaattgct caggacttca agactgatct gcgtttccag 300  
agccacgccg tgcttgccatt gcaagaagct gctgaggcat accttgatgg gctctttgaa 360  
gacactaacc tgtgtgccat tcacgccaa cgtgtaacca ttatgccccaa ggatattcag 420  
ctggcangaa ggattcgtgg tgagcgtgct tgattggtgg ttggaaagat gaagatgatt 480  
ggtggctg 488

<210> 3248  
<211> 508  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054g01a1  
<400> 3248

gctagaaaac cgtatttcag gaccttttcg gccattgctg agaaatatgg tccaattttc 60  
attctcaaat tgggttgcca cccacctta gtcgtgaata gcagggaaat tgccaaggag 120  
tgctgacaa ctaatgacta aggttttgcc tcaaggccta tcacatcagc agggaaaatc 180  
ttaggttaca acaatgcagt taccggtttt tccccttatg ggaagtattg gcgcgaaatt 240  
agaaaaatgg ccctccttga gatcctctca agctataagc ttgaaaagct aaagcatgtg 300  
agagacactg aaacattgtc tcttgctaaa gacctgtgct catcaatatc atgtccaaag 360  
aacgtgaatg gctcaacaac tcacggccta taagcaattt attggagcac atgtccttca 420  
atataattgt gaggatgata gctgggaaga gatttgaggg ggacacagtt aatcaagaag 480  
acaatgaggc atggaagcta agatacgc 508

<210> 3249  
<211> 499  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054g01d1  
<400> 3249

caatccaaaa tcatttcata ttcaggactt aaattaaatt gaatatttaa acagttctta 60

catggacgta cacaaatagc atgttcatta ctcctctaca agtcacaatg tagaaaatga 120  
 actacataat gtcgaaatgc agaaattttc atgaaatgaa atggggggaag ggaactcata 180  
 ataaggcata cattttgtct caaataggat taagcaggct ttgcttccac gacggactca 240  
 ctaggtaagc cttttaccgt gatgggtata tgacaagtgc gctttttaat tggatgggca 300  
 cgccctcgag ctacaggttt tacccttttc attgttttcc cttcattaac ctctgcttta 360  
 ctgataacta aacttccttt gcttaaaccg agattattgc tagcattagc tccagccgaa 420  
 aacactatct tgagaatggc ttcacaggct cgataaggca tgagttctaa taccataagt 480  
 gtttcgtcat atttacgtc 499

<210> 3250  
 <211> 544  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054g02a1  
 <400> 3250

accaaaccac ccaaggcact taaaactccc caccagaaaa aaaaatgaat tattctcttg 60  
 ccctagccct aggcctaata ctcatttctt gttctccttt gctagcaaac gctagaggcc 120  
 accatcatgc aggtggccat catctagggt tggtagggca aatctgcacg gaactcatcc 180  
 aaaaccagac gacttgcacg gaccttgtaa aggcagcaga tcctaaaatt gcacaggcaa 240  
 agacattcca agagcttgca caggcagtgc tagaatttgc cgtgaacaag ggaatagagg 300  
 gccaaacctt cctcaagggc ttggcactga ttgagcaatc accagccatt aaggaatgtg 360  
 caaacttttt ctatgatggg gtgggttgat ccttccgtag tgccttacgt gaggttgaaag 420  
 aagatgctca gaccgctagc tatgatgcca aagcggctta tgatggccct gacgggtgca 480  
 atagaacctt ggccgctgaa aatatcaata accctgctat tactgctctt aacagcgaaa 540  
 tagc 544

<210> 3251  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054g02d1

<400> 3251

ggtgctacaa gttgatcatg tttttcccggt ttcaaataat aaccaatgat atgaaacacc 60  
gcaattattg cagtgatagt aagtagaggt tttagaccca caaatcggtt tctgatgaag 120  
aaaagtagct aattctgaga cacagcagta gtatggccgt atctttgcat gactctttta 180  
gtggctagag ctgcagcctc actagcagc attgtccac ttgccataat tgcagcaaac 240  
tctttgagaa tctcatct 258

<210> 3252

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054g03a1

<400> 3252

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ctcaciaaagc agtatcgatg cgtacattca gctagctgtc aatgcaccaa gggtcattta 120  
agtgaagatg tgatattctt ggtgtttcag catttgaatt ggaacccgaa gctaattgct 180  
gctctgtcat gtgtgtgcaa atggtttgac gatctttcaa agcaagttct atggaaagaa 240  
ttttgtaaaa cgagagctcc gaagatgatg cttgatctgc aatctagtgg aagccacagt 300  
gttgatggga actggagggc tctggggaag cttcttatat tctgttcagg ttgcaggcaa 360  
ggcagtttgt tcaataacgt tcaggttcct ggccattttg ttaacaagac tcgattttct 420  
agaacatcaa gaaagagctt tctcatgcca caatgcataa atgatgtttt gtatgtgtct 480  
gatccttgtg agcatattg 499

<210> 3253

<211> 437

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054g03d1

<400> 3253

gaaaacaata cttgagacga ccttattctg attgtttcat gctacctgat gaccatgatg 60  
caagctaggg ccatgacacg atggttgctt gttggaaaaa accgccctct gctgggaaca 120

ggagcccagg gcttatcata aattcgtaat aactacggca tatttacacg acattcattc 180  
 acgatcctgc ttgcttcaag ccatgcatat tacatcacta tcaaagaatg gaccaaagtgt 240  
 tccaccacag atgccaccag ggacttggtta tcggcacttc tagcggagca attgtaacga 300  
 tttttgcctt gcatgccggt gagctcatta tgctggccca tcatgcgcat acttgagacc 360  
 cgattctcca aaaccagggt ctgggtgacg gtaaagggtg tgacaatgcc cttattatgc 420  
 ggatcagtgt ccaagtc 437

<210> 3254  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054g04a1  
 <400> 3254

ggagggcaaa gccaaagggg tttctttgtg ttgtgttact ccgccagcgg tagagatgag 60  
 ctcagccgat accttcaatg cgagttctgc tgagtctgtc aaagaacctg ttataggggc 120  
 aagtctagaa gtaaaacagg atgatgctga aataaaagct caagttgatg ccatgtggga 180  
 acaaatgaat aaaggagtat ctaataagac cctcaacaaa ttacaagca agcctaattc 240  
 cacttccaag aaaactgcaa aaaagtcatc ttctaactgg atgtcttatt tgggtttggc 300  
 accaacggca actgaatccc ttgggcaagg tgcttccaag aatggacctg gcgtgctgca 360  
 gagcagtact agtgatgaag tcaagaagct tgctgctgct gctcttgag cagtgaaaga 420  
 tgatgctgcc atagctgcct caagcagggg gaaacttgtg attactgagg ttcgggactc 480  
 tgctggtcaa gatattgaag ttaaaaagct cgtagattct ga 522

<210> 3255  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054g04d1  
 <400> 3255

ggaaaaaaaa aaaaatccct ttcaaaattg gggctttaa caacaatttt cacgttccaa 60  
 aaattgggaa gcaaaacccc ccaagaacgt ttgccccctt ggggcacctt tgaaacccta 120

cttactcaaa aggctgttcc cccacccgga caaaaaccct tgggggggac ctttcaacgt 180  
 ccctcccaa atgtggggcc ccctcatcac aaattcccag cttcaaaaat tgcaatgccc 240  
 ctgcgaactt tgggaaatcc ccaatcaggg ggcaatcccc catggaaagc ttctgacagc 300  
 ctcccaagtt acccatt 317

<210> 3256  
 <211> 550  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220054g05a1  
 <400> 3256

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 gaaaaaacgc acagctccag cgcagaggag caggatccga cccggcgcca cctggatccc 120  
 ccacccgggt taactgctga agagtctgag gacctcaaac cctccgtgct ggagcaccac 180  
 acctactccg tcacaccac cgcgcaaagc tctcctcc tgcgcagcg catccacgcg 240  
 ccaccacagc cgggtgtggc cgtcgtgcgc tgcttcgaca accacaggc ctacaagcac 300  
 ttcacaaaga gctgccacgt caaggagggc ttccagctcg ccgtggggc caccgcgat 360  
 gtccacgtca tctcagggt accggctgcc accagaccg agcgctcga cctgctcgac 420  
 gacgacagac acgtcatcgg cttcaccatc gtcgngggc accacaggct catgaactat 480  
 ccgtcagtc cctcgggtgca cgggttcgag tgcgacagaa agatctggac cgttggtctg 540  
 gaatcgtacg 550

<210> 3257  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054g05d1  
 <400> 3257

ctgggctatg cgctgatccg gaattaattc ccggatctac ctactcggta ggtcgccctt 60  
 cgttcttttt tttttttttt tttttttttt tttttttttt ttttttttta acagaaaatg 120

aaacaattta taaaaggacc tgggttacagc gaactttgct actgaacaaa gctgttatac 180  
tagtagcatc tggcataact caaagccagg caagacactg acttatgtca tagactttcc 240  
tataacaacc agctcagcca gtctactaac tactattcaa accgacattt ttttaaagag 300  
gctctccctt attattggag cattgataac cacaactacc atttaaccta ttggctactc 360  
agctttggct tgttcggatt cgagccaact caagcactca taaacctgt 409

<210> 3258  
<211> 490  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054g06a1

<400> 3258

gcttggagtt cccaacaact atcttattcc ttcactcact cctctctgcg cttggctatg 60  
gaaaaaacgc acagctccag cgcagaggag caggatccga cccggcgcca cctggatccc 120  
ccacccgggt taactgctga agagtctgag gacctcaaac cctccgtgct ggagcaccac 180  
acctacttcg tcacaccac cgcgcaaagc ttctccctcc tcgcgagcg catccacg 240  
ccaccacacg cgggtgtggtc cgctcgtgcgc tgcttcgaca acccacaggc ctacaagcac 300  
ttcatcaaga gctgccacgt caaggagggc ttccagctcg ccgtgggggc caccgcgat 360  
gtccacgtca tctcatggct accggctgcc accagcaccg agcgctcga cctgctcgac 420  
gacgacagac acgtcatctg cttcaccatc gtcgggggcg accacaggct caagaactac 480  
cggtcagtc 490

<210> 3259  
<211> 489  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054g06d1

<400> 3259

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aataatacac cacaacaaa aagatcggaa ttgaaattta tgaactcaag aaggtgtgtc 120  
gtatcccccc tctcaagtaa ttattcatat cacacactgt tagagctgca gcatgcagct 180

ctaattttat tattaattag tatacgtagc gcagaacacg atatttaata catgaagttg 240  
atcacacata aattaatcag tagttcctcg ttgaggcatc gaaattacca ccaataaagc 300  
ctccattgcc atgtccctgg aaattgccac tattatttat agcaggacca ccaccgtagt 360  
tgttggtggc gtgatgagt ttaccatcac cagaatatgc accactgttg gtcttagtgc 420  
cagtgatgtt ctgaaaccca tcgccatggt tgggtgatgt gttcacttta cctttgggat 480  
ttttgggct 489

<210> 3260  
<211> 484  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054g07a1

<400> 3260

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aatTTTggta gcatggcaat gccatgcgta cgatatgttc cctctccgaa tgaacactgg 120  
ctatggtgcc cgtactccgg aggtgaaatg cgcaagttgg aggcttgctg tggaagcaca 180  
caacatcttt ggctttgaga ccattcctga agagtgcgtt gaagcaacaa aggaatacat 240  
ccatggcgaa caatatagat cagactccaa aacagttaac caacaagctt acttttatgc 300  
cagagacctc gaagtccatc ccaaggacac atttgtgttc agtatagatg gcaccgtact 360  
ctctaattt ccatactaca aaaaacatgg atatgggggtg gagaaattta actcgacctt 420  
gtatgatgaa tgggttaaca agggcaatgc accggcactg cccgagactc ttaagaatta 480  
caac 484

<210> 3261  
<211> 472  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054g07d1

<400> 3261

cccaaaagtc agacatatat atcctatata acattggtcc tatattgcta gaccatatat 60  
taacggatcc gttaacttaa tgaattccag aaaatttgat acgaacaaat gttgaaatgc 120

ctatgcatac atttttaaga aactataatg ctgtgtagcc aattagattc aggatcgggt 180  
ctaattgcgt gctctatgac aatatcattg agtagctcat gctgatctta tcagtgggtt 240  
gatatgaagg agctatcata ttcttccttg atcagcctgt ggtgcaatgt atctagggcc 300  
attagtgatt cacacaggcc taaggaatac ccccaaattg tatgatcctg gaccttcaac 360  
ttcgcgaggc agattcctca gattggagga tacatattat cagtctcaac ttgactgtga 420  
atagcactat cagttatgct atcataggtc tggagatatg cctcatcacc ct 472

<210> 3262  
<211> 506  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054g08a1  
<400> 3262

aaattcatgc gtgtgttact attcatttga atcgtcgaca cttcgcactg tctttctaaa 60  
ggcttcaaaa agagctcaag taggtttctt ggaagccact cttgaagcct actactacga 120  
ccctttatat atatccacca caaacgacac gtcttacata aactccatca cattgaagcc 180  
accacttgat ggtttcattt tcataaattc tcaaatttct ctcagcagct tctttgtact 240  
cttccttggc tgagcttctt ttattttaat tttctctcta agtacacca ccagtttgt 300  
gctatatact tgtattttct ctatattatt aactgatct tgaagaagca tggcagagaa 360  
aaccaagaac aaggtggagg ttcaattggg ttgcggttg atgggaagaa ttttccatct 420  
caaaaccaat aacaggacta gaaaatcctc tgttcattca ctaccctga aggtttgcaa 480  
caacactgca cagcaacaga gggatc 506

<210> 3263  
<211> 400  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220054g08d1  
<400> 3263

aacgcacatg tacgtaacac ttaaaaatac atacacaaat taacatgggc atgtctgttg 60  
agatggacgt caccacaaat atagtaaaca taaattaaat aaacatagtg acgaggatat 120

acagattatt ccaatccacc atgtataagc aaattaatta agaacacaat taaatgaagc 180  
atgtctctcg tagctcaa atgttgcca gaattacagg ttgaggagc tcctgaaaga 240  
ccctagagcc ttgtctgctt gggcccttaa cacggactgg tggtagaatg cagcatgagc 300  
agcaccgatg aagggtccaa ccagaagat ccactgggtca tccaagcct tctcgttggt 360  
gaatatgaca gcaggcccaa ggcttctagc tgggttgatg 400

<210> 3264  
<211> 547  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220054g09a1

<400> 3264

atctgcgaaa gccaaagggtc accaaaacca tcatcataac ccaaaccxaa cccaacccaa 60  
cacaacacaa caccacctcc tatcacataa taacaacctt aaccttaacc ttaaaccxxx 120  
caattttcat gtctcggtac cgtgattcg gatccccaac aaaaaaagaa acctcgtatt 180  
tgttattttc gtcggatccg gttgggaacg ctcatgacgc ggcgttgctc gcattgcagc 240  
cacaatgggc acaactccag aacctgccct aaccgcgggg ttaagctctt cgggggtccga 300  
ttaaccgacg ggtcgatccg gaagagcgcc agcatgggca acctaaccca ctacgctggt 360  
tccgggtcgg ccccgctcca gtgcgggttg aataaccggg gttcaccggg ggagacgccc 420  
gatcacgccc tcgtcgtcgt cgacggctac gcctncgagg acttcgttcc cgggtcttct 480  
tctagctccc gtgaaagaaa gaaggggttc catggactga ggaggaacat agaatgtttt 540  
tgctcgg 547

<210> 3265  
<211> 368  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054g09d1

<400> 3265

taggtcggcg gtcgcccttt tttttgttt tttttttttt ttttttttgt ttttttaggg 60  
ggaaccact tttaaagtag gtatcaactt gtgaccctga ttctgagaaa ctacaccgca 120

actcattttg acgccatact agtctaatat ttatgaccat aaggatgggg cacttttagtg 180  
gagacgatac atcacgaagt gttattacca atattaataa tgctactaat attctagagg 240  
gtaattttcg ggtgcctgac cacacaaatg tacgttcaga ccttgaagga tcatcaattc 300  
ggggaggtgc ttatgctgta aggtgtgggg actcgagatt tgacgaggag ctaggacgca 360  
ttgttggg 368

<210> 3266  
<211> 571  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054g10a1

<400> 3266

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ttagaaaagg cacaacttgg tctggggcat agttacagca gagcaaagg gaagttaaat 120  
gttaaccgtg ttgacaacat ggattattcaa gctatcttcc ttcttgatac acttgacaag 180  
gatgttaatt cgttctccat gagagtcaga gtggatttca tggcactttc ctgagctggg 240  
gaaaattgta aatgataatt atctgtatgc caaagttgca aaattttattg aggataaggc 300  
aaagttggct gaagacaaga ttccagcctt aactgacata gttggagatg aagataaagc 360  
aaaggagatt gtggaagctg ccaaagcctc catgggacag gatttgtccc cagtggactt 420  
gatcaacgtc catcaatttg cacagagggt aatggaccta tctgagtaca gaaaaaactt 480  
gtatgattac ctggttgcta aaatgaatga tattgcacca aatttggcct ctttaattgg 540  
tgaaagtgtg gtgctcgttt gatttccatg c 571

<210> 3267  
<211> 521  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054g10d1

<400> 3267

cacagcgaag aaaaaaattt gtatattgaa aataatagaa aaacgtacaa tggagaacac 60  
tcattttctt ttgtagaaaa aagcattatc cttgcttacg gtaaaatcat cgagggaaca 120

agccctaata ttggaatccc aactcatgcc tgaccattta ctagaaacca gtaataatct 180  
ccaatcatag ctcgaaaaag tcattctgga agatgcacaa aaattgtaaa actataatag 240  
tcctcccttc catataactg cattagttca gcttggaataa gttgagcatg tccaaagagc 300  
aagactccaa tccttcctta cacaatttca ttgttggcag tggaccagct tggagaattc 360  
gggcagaata caagtcctag aacagtgcac aaaatatagg aggcacccct tatgcataaa 420  
atgacgcata aatgattaca tggggcttat gtctatccgg cctttgtgga gttgaaaagc 480  
tggagtgatc cagcttcac agctgcattt gatgcctgac c 521

<210> 3268  
<211> 472  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220054g11a1  
<400> 3268

cagaaaaatt actattagag agatacaaaa ttgttcagag aactcatcca gtctcaagaa 60  
gcaaaattca taataatttt ttggatagac tatagagagg acacgacca caagcttaag 120  
acctaggctt ctcttcttc tccttgaaaa gggccaggag agacacacca gaaaccttca 180  
cgaccttgaa cctgactcca ggaatatcac ccacggcatg accttttcgt ccaaattccag 240  
ctatcaagac ttcattcattc tcttcaatat aatttaagca accgtcattt ggcacaaatg 300  
cagcaatctt ctcccatctt ttgatgagtt gaaccctggc acattttcga atggcagagt 360  
tgggctgctt agcctcaata ccaatctttt caagaacaat acccttggca tgggatgaac 420  
cagcaaaagg cttcttccat tcatttccca gatgagactt tctgtatgac tt 472

<210> 3269  
<211> 353  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220054g12a1  
<400> 3269

gcaaaatgct attcgttggg gctggtgacc tatacacact cagacgatta atgagtttct 60  
agttacaata attacttacg taagagtaat ccgacatgtg atttctgcag aatgataatg 120

attcttttgt acttggaggc aatggcaatt ttagacgtg ggaagcatgt attgtaccaa 180  
 cctttcttca gggtttctgt gacaaaagtt aattgttatt gccagaatga gtcccaattt 240  
 tgcttgaggt aaatatattc ggattggtat gtcagtcaag tgaggcgggt ctttatgact 300  
 atagctcggt attcaactgt ttttctttta aagtagattg tacttcacag ttt 353

<210> 3270  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054h01a1

<400> 3270

gagcacttca aggtgaggaa caatTTTTTg cttttaaag ttatcttctg tttattatga 60  
 atatcttctc tggatatgtt gattttaaga catgcaggaa gttcctcata atttgaatt 120  
 tggaggcagt cattgattga ctgggtgaga cttgtaaata tggatatcaa ttttttctgt 180  
 atactatttg gaggggtgcag acgacgactt gaattataca atgcaacttt aactgcctta 240  
 ggctcaaaag tggcctttat gtcctcaaaa agatatttta ggttgattat tttggactga 300  
 aattctaaat tgggctagtc ttgtatgttg tacatacatt atattgcaca aacttttta 360  
 gatgtcactc taaacagaac taaccactac ttaagatctt acgactaaat ttaaaaaata 420  
 gttagaaact gtatcattct gccaaaggcca tctagttaag tgtctcggct cagtatatca 480  
 tgtgaatata ttaattgaga aagttgcatt ttggtattta 520

<210> 3271  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054h01d1

<400> 3271

gtagaagtag aattgttgat tcgtaattat atacaaagct atgataccgt tgttgcaaaa 60  
 tccctaggat gaaaaaacag tagataatac aacatactct gacaagttta aaaaattaaa 120  
 agacctgcca cttatatatc tcaaacaaaa atatttttat ctcaagagaa tgtatcctct 180  
 cgatctccct cagcagttat ctccacttcc tccatattgc tgaactctaa gaaatggggt 240

ggtctatggc cctcgtggta atattcccta ggagtcctaa gcttcactcc atatttcac 300  
 cctgatgcgt gtctcaccac catgaagttg taattccatg gaccattatc aggaaccatg 360  
 tagaaaccaa ggaagcgatc actaaggagc atctgaacct tctcataatg ggtgggaagg 420  
 taaccatgtg gattgcttcc cgtatcctta ttaacacgcc cccattcata accagatgga 480  
 gtgagcttat atgcagttaa agaaca 506

<210> 3272  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054h02a1  
 <400> 3272

tttgctaata agacatatct tccaaatgaa actccaactc cactagtga gtagagaaaa 60  
 gaagaattgg aaaatctaag aggagatgga aaaggagagc gcaaggaata tgataggatc 120  
 tatgattatg atgtctataa tgatttgggt aaccagaca agagcaatga tctagctcgt 180  
 cctgttcttg gaggggtctag tgcctatcca tctcctcgca ggggaagaac tggtagaaaa 240  
 ccaacaacaa aagactctaa gagtgagtca ccatccagca gcacctacat cccaagagat 300  
 gagaactttg gtcacttgaa gtcacagat ttccttacat atggaataaa atccatagct 360  
 caaacggttt tacctacatt tcaatctgca tttgggttaa atgccgagtt tgatagggtt 420  
 gacgacgtgc gtggactctc tgaagggtga attcatctcc ctacagatgc actcagt 477

<210> 3273  
 <211> 537  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054h02d1  
 <400> 3273

ttcgttcttt ttttttttca atccaaaatc atttcatatt caggacttaa attaaatcga 60  
 atatttaaac agttcttaca tggacgtaca ccaatagcat gttcattact cctctacaag 120  
 tcacaatgta gaaaatgaac tacataatgt cgaaatgcag aaactttcat gacatgaaat 180  
 gggggaaggg aactcataat taggcataca ttttgtctca aataggatta agcaggcttt 240

gcttccacga cggactaact aggtaagcct tttaccgaga tggctatatg acaagtgcgc 300  
 tttttaattg gatgggcacg ccctctagct acaggtttta ccctattcat tgttttcct 360  
 tcattaacct ctgctttact gataactaaa cttcctttgc ttaaaccagc attattgcta 420  
 gcattagctc cagccgaaaa cactatcttg agaatggctt ctcaggctcg ataaggcatg 480  
 agttctaata ccataagcgt ttcgtcatat ttacgtccac gactctgacg gatcact 537

<210> 3274  
 <211> 569  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054h03a1

<400> 3274

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 aggtgtttct ccatctttga tgcgtggtgc aaatatcaag ggcttcacta caatttcagt 120  
 tctacctcct cctccccga gctatcttct gggttacact cttccttctg gtcacccctg 180  
 taatactttc acacttcctc ctccaccggc agataaaaag cgaactgggc cagaccatg 240  
 ccagtatgt taccttcccg tggatgaagc cattgcactt atgccaaagt ttccgtcacc 300  
 ttctccagta cttaagaact tagcatttat ctatgaggaa actcttagca gggatgggtga 360  
 atttggtggc tcggactttg gtggatatcc tactctgagg cagagaaatg aatcttttga 420  
 tatacgagag tcaatgagtg tgcactgtgg atttgttaga ggaactaaac ctggccgcaa 480  
 cacaggattt gacatggatg aagatgacct ccttgaaatg gagcagtgtc acggcgtagt 540  
 tgttgcatac accatatttg gaaatttga 569

<210> 3275  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054h03d1

<400> 3275

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 tatctatcta tatctatcta cctatatcta tatagatata ggtagataga tatagatgtt 120

tactaagtag attatattga gccgcaatat atgtgcggca agctaaacga aaaggactat 180  
 tttgtagaaa actgggtcaat gatggccttc catggattca cctatataag ccgcagctaa 240  
 agtagcaaaa atgagagctt gaataccgct tgtgaataat ccaaggaaca tgacagggtat 300  
 aggaactact aaagggtacta aagaacaag aacaacaact actaattcat cagctaatat 360  
 atttccgaaa agtcgaaaac taagagataa gggttttgtg aaatcttcta agatgttaat 420  
 cggtaaaagg attgggggttg gttggatgta tttattaaaa taagctaata ctttttttga 480  
 aagaccgca tagaaatatg caattgatgt agtaaagcta aagcaacggt agtatttata 540  
 tcat 544

<210> 3276  
 <211> 533  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054h04a1  
 <400> 3276

tgaagattca caggagggga acagtgttca taacattagt gttaatggaa atatgtctat 60  
 aggtgtttct ccatctttga tcgctgggtgc aaatatcaag ggcttcacta caatttcagt 120  
 tctacctcct cctccccga gctatTTTTT ggggttcac tctttccttc tggcatccc 180  
 tgtaatactt tcacacttcc tcctccaccg gcagataaaa agcgaactgg gccacgacca 240  
 tgcccagtat gttaccttcc cgtggatgaa gccattgcac ttatgcaaaa gtttccgtca 300  
 ctttctccag tacttaagaa cttagcattt atctatgagg aaactcttag cagggatggt 360  
 gaatttggtg gttcggactt tgggtggatat cctactttga ggagagaaa tgaatctttt 420  
 gatatacgag agtcaatgag tgtgcactgt ggatttgta gaggaactaa accttgccgc 480  
 aacacaggat ttgacatgga tgaagatgac cctccttgaa atgagcagtg tca 533

<210> 3277  
 <211> 570  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054h04d1  
 <400> 3277

aaatcttaaa acaactcaaa ctaattaact tcattcttcc aatcacggaa tactcaatgg 60  
 atcacaaacg tcaaggaact tagtgcatta tgaagcacia tttatcaact gtatagtatg 120  
 caaagaaaca agatgccgtc aactatatat tgtaaaacga aaattctaac cattttgaaa 180  
 aggaaaaata tcatattata aggctccact gttgtcacct gttggcattc cccatcaact 240  
 gctttcttcc acaatgtcac attgatgttc ccatcatcca cagccaatat gtttcctgtc 300  
 aatgaccatg agacccttca aacaggggtg ttgaaatcat tcaaaacctt gccttaccac 360  
 tgatccccct atttcgccac ggtccatata atcactttac cgtcctgtga tgcgctagca 420  
 atggtagatt tagggagccc tatattgggt gcccaagcaa catctcgaac ccaatccgtg 480  
 tgcattgaa gagcagggaa gcagtcctac tttcagagtc catcggttag cttccatacc 540  
 ttcacagtat tatcacaacc accagagcac 570

<210> 3278  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054h05a1  
 <400> 3278

caattattgg gagttgtgtg ttgatgggtt gatccacaga tcgttacaag attcatccaa 60  
 gtgaagtaac aacaacctat tttactcaa aaaaacccga tggcgacata ctttcatcat 120  
 ggtaactccg aaatccaatc ggggtggcgcc gacggactcc aaactcttgt cctcatgaac 180  
 cccggctata tccactactc cgacgcgcgc cgcgcgcagc agcaaacctc acaaaccgcc 240  
 ggaaacctcg tgtttctcaa ccccgccgcg gttgctggag gaaataataa ctcgtttaac 300  
 cccacgcgc cgatcatctc caccacaaca ttcgttgga tccctctccc aaattcccaa 360  
 gacctcaacc accactccat gcacgcgcac cacgatgtct cagccctgca tggcttctg 420  
 ccgcgcgatg agtacaatcc ctggaacgcg ctgcaccccg ccttggcggc gcgtgaa 477

<210> 3279  
 <211> 536  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220054h05d1

<400> 3279

aagaaaaag aaagttctaa ttattaataa attatatcta tatatatata tatacagata 60  
gatattctat atctttttatc ttaattaata tttgaccctt ccttataatg tgttatagtt 120  
ttctttatctt ttaggaactt atccattcct tttttaatgt gcccgacaat ccgaaagaat 180  
tctgggggag ggggtcatttc gtttttgatc tagaataaat agagcttcaa gaaatgagag 240  
aattaagaat acccagcaga aacactaatc caatccataa tgatgtaccg gaaaatacaa 300  
catttttggtt attcgaccaa ccttcaggag aagcaaatac aacaggatca ctaatcaata 360  
aaataaatga aatagcaatt aatgcaaaaa cagctaattg gaaagcaata gtcattgtttc 420  
taatcctcca atttaccac aaagaactt taccatttga tcccccaacc ccttgatccc 480  
tttatctgac aanaaattta tataaaaaaa cgccagaggg ttctatcatg aattca 536

<210> 3280

<211> 279

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054h06a1

<400> 3280

aggaaacact taaactacac tactacaata ccaccaaaga gtattgcaat atttatctag 60  
gcgggatcta tagtcgttca tgatgattat tataccgacg aagatgatca taaatactaa 120  
tagctagagg atcaagaatc tgggttacgta gaatttatgg aaataccgtg cttaatcaca 180  
tcacaggatt ctccctgttt ggagacggag actatacatt ttctatttgg atgaacagag 240  
ccattgggtt tgctcacaac ctagtggcta tttctatgg 279

<210> 3281

<211> 461

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220054h06d1

<400> 3281

gtgattgtgt aaaattttat tcgattaatg gcttaataat ttatcagtca cagtgacatt 60

ataatgcgct gtgatttaga agaacttcca aaacaatatc taaaacactg attaacaaga 120  
 aaaaaacata caaaagcaac ctaaaacaca tcaaactctaa actatacccg ttaaccactg 180  
 attattcatg agtcagataa agctgccccaa tcaatctcca cggaagggtta cttctccaag 240  
 tccaacccaa gattgtccat tgtttcacia gaatccgaga aatccaagag ggtaatatcg 300  
 gattcaggtg aagaagaaga agaagaagaa gaatattcat cggagaaggc cgaggacgat 360  
 gatgtttggt aattctcaac cttattaaaa tcctgaaact ccgatgtctc tgtctctgcc 420  
 ttgtgtgtat ctagaacata gggttttgag ttttgagttt c 461

<210> 3282  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054h07a1

<400> 3282

gttttagaaa gacgcaggtt gaattaatta gtatcatggc agctttgatg gattttttaca 60  
 gcagcagccc agagtttcaa cttcactcag atccattcag gggagaacta atggaagtgc 120  
 ttgaaccttt tatgaaaagt ctttctccca actattttcc ttcctcccc tccctcccta 180  
 atctttactc aaacgggtta tccagcaaca cccaagctt aattggcttc gggcaagcgc 240  
 aaccacatc tcttgtgggc ctgaaccacc taaccccatc tcagatctct cagatccaag 300  
 cccaaatcca gatccaggcc cagcagcatc agaatcgag caacaccctg agcttccttg 360  
 ggccgaagcc catccccatg aagcacgcgg gcatgcctcc gaagcccacg aagctttaca 420  
 gaggggtgag acagaggcac tggggaaagt 450

<210> 3283  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220054h07d1

<400> 3283

ggttccaaat cacacggtgc agtaaccatt attaggaaat aattgagaaa cacatgaagg 60  
 accaaagtct actacataac caaacttgac cccaagatg cttatctaaa gccccacact 120

atgttgcgct atcctccaat tcctctgac tataatcccc aataaccctt ttccttcacc 180  
 tgtttaatta cactcaatat atcagcaaag attcaaaatc ttgtatttca cacactacaa 240  
 gatccaacct ttagatcaat gactacttgg aggggggatg aaatattcag tgaagaatct 300  
 ggccactactg aactttatca tgaggggttc aagaggagca ctaggttgg 349

<210> 3284  
 <211> 541  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220054h08a1  
 <400> 3284

tgcaggcagt gtcctctctc ctttgacgac aagatgagca tccaattcc ccatcggcag 60  
 ttattcatag acggagactg gaaagtcccc gtcctcaaga atcggattcc catcatcaac 120  
 cctccacccc aacacatcat tggggatata ccagcagcta ctaaggaaga cgttgatctc 180  
 gctgtcgctg ccgccaagc tgccctctcc cgcaacaagg gcgccgattg ggccctcgct 240  
 tccggctccg ttcgggctcg ctacctccgc gccatcgctg ccaagatcac cgagaaaaag 300  
 cctgaactag caaaactcga agctattgac tgtggaaaac cgctcgatga agccgcctgg 360  
 gacatcgacg atgttgctgg ttgctttgag ttctatgctg accttgctga aaaattggac 420  
 gcacagcana aggctcatgt gtctcttccc atggacacat tcaagagtta tgttcttaag 480  
 gagccgattg gagtcgttgc ttttaataact ncttggnatt atcctctgtt gatggctacg 540  
 t 541

<210> 3285  
 <211> 528  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054h08d1  
 <400> 3285

tgccttgtct gattatctcc gggctcgcca gctccatgct cactgtcggc ggctcgccctt 60  
 tttttttttt tttccatctt cacattatat aacacgtatt tggcccccat aaccatagtg 120  
 attaagaagc ccttcatctt gtcgccaatt tgctctaacc ttcacttcaa tctcaagata 180

aactttcttc tgtaaaaaat cttcaacatc aaggcgggca gctgttgcaa gcagtttcaa 240  
 agccttttct tctcttccaa taaggataat cttctgagtg tgttttctcaa ccaaaatctc 300  
 tacttgatg tattcttttg catttggccg agctttatag tttacaacat ttacctgaca 360  
 tgcataatgga atttcatttc gatactgcat aaaaatcttt tctctaaciaa tttcagctac 420  
 aaaaaatctc tctggatgct cactgacaat atcctttgga taataagctg gtccattggg 480  
 aaagcttgac agtatccagt ccttgacatc ttcacacccc tgaccata 528

<210> 3286  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220054h09a1  
 <400> 3286

aacaaaacaa gcactcaaag tgcttcgagt tcgtcactga tcacgtttcg gcaatgcacc 60  
 gcgtgggtag cgcgagtaac ggaacaatt caactcgctc tcgcaaggag aagagaataa 120  
 cctacgtgtt gaatgattct gacgacacaa agcattgtgc aggcataaat tgtctggctc 180  
 tacttacatc tgctgcatct gatgggtctg attatctctt cactgggagc cgtgatggca 240  
 ggtaaaaacg atgggcacta gctgtggata gagcaacatg ctcggctacc tttgaatctc 300  
 atgttgattg ggtaaatgat gctgttggtg taggtgatag tacacttggt tcttgttctt 360  
 cagatacaac ccttaagaca tggaaatgct tgtcctttgg aacctgtact aggacactcc 420  
 gacaacactc tgactatggt acttgccctg cagcagcagg aaaaaatagc aatattgttg 480  
 cctctggtgg ccttggcggg gaggnnttta tatgggatat cg 522

<210> 3287  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220054h09d1  
 <400> 3287

aacaaacaac tggcacattc ttgcactact tgggaattac aacatattat gttagcacat 60

tacagcatat tgcgctatag catattacaa tgtcatagtt gctaatacagc agcttcacta 120  
gaaaaatatc ctaacaacat cagtttaata tgggttatata taagcctggc ttatttttct 180  
tccaatacaa taccgatgaa cttagtagga taattttatg tctcgactca gttaaaatta 240  
caaactatta ggccactttg aattgattag acaggcaata ctattgtacc tgtgaattgt 300  
gggactattc ggagggtttta atccaaagat agagaaatct acagacattg gagctgattc 360  
attcttgcca gtattatcat ctagatggct gtctgaacat accaaaactg gcattaacct 420  
t 421

<210> 3288  
<211> 519  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054h10a1

<400> 3288

aacaaaacaa gcaactcaaag tgcttcgagt tcgtcactga tcacgtttcg gcaatgcacc 60  
gcgtgggtag cgcgagtaac ggaacaatt caactcgctc tcgcaaggag aagagaataa 120  
cctacgtgtt gaatgattct gacgacacaa agcattgtgc aggcataaat tgtctggctc 180  
tacttacatc tgctgcatct gatgggtctg attatctctt cactgggagc cgtgatggca 240  
ggttaaaacg atgggcacta gctgtggata gagcaacatg ctgggtacc tttgaatctc 300  
atgttgattg ggtaaatgat gctgttggtg taggtgatag tacacttggt tcttgttctt 360  
cagatacaac ccttaagaca tggaatgcct tgtcctttgg aacctgtact aagacactcc 420  
gtacacactc tgactatggt acttgccttg cagcagcagg aaaaaatagc aatattgttg 480  
cctctgggtg cccttgcggg gaggggtttta tatgggata 519

<210> 3289  
<211> 509  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220054h10d1

<400> 3289

actatattga gattgaagtt tcaattcaaa aataacataa ccactcttct ctcctttgaa 60

ccaatagaag gggaaaacag tggtgattaa catcctagac agcagaggta tagctggcat 120  
 ggggcgaaga aaagaaatat cataatccat gaaaatacag gttcaaccgg cacatctgaa 180  
 ttgacattct ttatttttaa atacatgccc aactacagtg ctgtaaaact gtagatgtgt 240  
 gtccctggat gactgaacta taccaaactg ttccattgta gtcattatca agaaacaaaa 300  
 agtaaggctt cttattgggc acagtgagca tagccacatg ccaactcgtg cagcatgtgt 360  
 tgatattaga gataacagtg tgagctctcc aacttacagg aaacaaaagc agccattctc 420  
 tggaaaatcg cacattaaga cactataaaa gaaggaataa aaactaagcc ctgggaacct 480  
 tgtctagcaa aacattatct gaagattta 509

<210> 3290  
 <211> 594  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220054h11a1  
 <400> 3290

gaaaacataa gggaaacttcg tttgactggc ctttacataa aagaattgcc attttcattt 60  
 caaaatctta ctggactccg tctgttagcc ttgagtggct gtggaattgt tcagttacca 120  
 tgtagcttag ccatgatgcc cgaactgtct tcattctaca ctgattattg caacaggtgg 180  
 caatggatag aattggaaga aggtgaagaa aaattgggct caataatctc ttcaaaggca 240  
 caattgtttt gtgccacgaa ttgcaatcta tgtgatgatt ttttcttagc aggtttcaag 300  
 aggtttgctc atgtaggata tttaaatcta tcggggaata atttcacaat ccttcctgaa 360  
 ttcttcaaag aactgcaatt tttagaact cttgacgtga gtgattgcga gcattctcag 420  
 gaaattagag ggctttcacc aatcttagag tattttgatg caagaaactg tgtatccttt 480  
 ccttcctcga gtacaagcat gctcttaaata caagtattgt cttattttat ctaatggata 540  
 tgatttgatg atgatgctgc acttaatgct gtaaacttat gaatatgact aata 594

<210> 3291  
 <211> 541  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220054h12a1

<400> 3291

gaaaacgttg gtcggagaac attaccggaa agagaatctt tgttgattcc agaaatgtct 60  
agcatcgctt cctcacacca aagcttcttc accaacgccc ttattccact aacgcacaac 120  
ccaaagtcca ggaccactgt tactttccct tcttcactca aaactgtctc ttgcagttcc 180  
ccacaacatg aacagcaaca atctccaagg aagaagaatg agaacaagtt agcaaagttg 240  
gcaatagttg cacttgctgc tgggtgtgta acacttgggt cagttcatga tgcacagcc 300  
gccaaagactg gtggtagaat cggggggccag gccttcaagt cagcagctcc gcgctcctca 360  
ccaagaatca acaattccag aaccaatata tatattaatc ctcgagtggc acctccgcta 420  
gttgggtggct atggctatgg ttatgggtgtg ccattttacg gtggctggng atggctctca 480  
ttttcattct ttgcaccaag tcccagtgtg gctgtaagcg ttggaagtgg attcgacact 540  
a 541

<210> 3292

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055a01a1

<400> 3292

atcttcttac tctttcgttt gtctctcttc tttcccttc ccctctcttt cgagggtttt 60  
tctttttctt tttttccccc ttttttattt ttctttttt ttttttactt tctcttgttt 120  
ttcagttttg cttccatttc ctttgaatcc ccatttcttg ttctcttgca actctaacc 180  
tagaattgaa gatgcaacca cagagggttaa ggcagcatgc catgttgcaa ccatctctct 240  
accaccaccc cgctctcctt actcctcttc agatagagcc tatcttgagt ggaaatctgc 300  
cacctggctt tgattcgagt tcatgccgca gtgtttatgt tggcaacatt catccccagg 360  
ttacagattc ctttcttcaa gagctttttt caactgcagg cgcccttgaa ggatgtaaac 420  
ttattaggaa agagaagtca tcctatggct ttgtggacta ctttgatcgc agttctgctg 480  
catttgccat tgtaactctc aatgggagga atattttt 518

<210> 3293

<211> 497

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220055a01d1

<400> 3293

gttcttgaat tagaataatt tcacctcgat aactttcaaa atcctttaat gcaaattacc 60  
gaaataaaac tctagttcta gtacaaacaa cacctagcta taataattag gggttgatac 120  
catagagctt tcgaatcccg tctatatcat cttgcgctag attcaccttc ctagtctgag 180  
gtggtataga aggatacatg atggctctta ggtccgacga gtggcctaata ccgagcaagt 240  
gcccgatctc gtgcactgcc acagattcaa ggtcaaacgc acttgtcacc ggcgatttgg 300  
tgacatcgcc agacgccacc caatattcgt cggcgtcaaa gtggcacctc ccatcagtgg 360  
gagcgaatgc atggcccaat atcccacctg gaccatcaaa aggatacggg tcaccgtggg 420  
tcttactcgc gaaaagaatc ttaatgttgg ctgtttcata cgacgtcgtc tcctggaacg 480  
cgatgttcac cactggg 497

<210> 3294  
<211> 537  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220055a02a1

<400> 3294

actagttgtg ctattgccgc tgtcccgtgc aattcgaagg gaatgaagaa caagggttta 60  
gaattagggt cttaaaacaa ctgaaccaac tttgtgggta aaattaggga ttcaggtgta 120  
aagtgaaaaa ctagggctctt ggtaaatctc caaaatgtcg acgggcaaac ccagaggcgg 180  
tgattttcag atgggtcccg cgccgggaac gtcaaagcct ccccttccga cggcagcagc 240  
atcgaatgcg atagtggaat atactccggt ctctctcaaa gaggaagagg aggatctgga 300  
agtcaagctc cgacggatta tcgacaatgt tcctgtccgt gttagcaata ctttcggtag 360  
ttccgtcgga tcaggctccg gcgacttgca ccagtatcgg caaatgagac gcatggaaca 420  
agatcgtctt gtcaggatgg aagtcgacta ccagaaaagg aaagagctgg cagaatttaa 480  
tttgagaaga gaggatagac taaaagctgc tgatgaacgg actgcaaaga tgcgagc 537

<210> 3295  
 <211> 571  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220055a03a1

<400> 3295

aaactggttc ttcttttcgc gttgcgtttt cttggtgtct ctgtcgattc ttcttctgaa 60  
 ttttaatact taggaagttt agttttctct cttggcttct ccggttggag tttccggcga 120  
 ccttgtcgga gattttgttg tttatttttc acaccacttg tgaaacttct caagaaaaag 180  
 aaaaaggatg tttcttggtg attggttcta tggaattttg gcgacccttg gcctgtggca 240  
 aaaggaggcg aagattttga tcctagggtt agataattct gggaagacca ctttgcttca 300  
 catgctcaaa gacgagagac ttgttcagca tcaacctact caatatccca cttcggagga 360  
 gttgagtatt gggaagataa agtttaaggc tttcgacttg ggtgggtcacc agattgctcg 420  
 tagggctctg aaggactatt acgctcaggt ggatgctgta gtgtacctgg ttgatgcant 480  
 ttgacaggaa aggttttcag aatcaaagaa ggagtnggat gctcttctct ctgacgagtc 540  
 actagcaatg tgccttttct catcttgga a 571

<210> 3296  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055a04a1

<400> 3296

ctcgagccga atcggctcga gcgacccaa aggtgacggg gaacaaaatt aaacatacca 60  
 tactctctgc ttattagtca ttgaacttcc cttctgtaat gttttcaaag ggagaagggtg 120  
 ttgaatgcta atctcaatgt tactgagatt ttgggcattc gtgttcttcg ttatgaattg 180  
 tggatgtact gggctatfff agtttgcct tccatttata cgcgtttctg aactgcctat 240  
 tttcttaatg aactgaaat ctccattatg atgctgttta gaatattacc aagatgttgc 300  
 tctctttaaa aaaaacctct tcac 324

<210> 3297

<211> 540  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220055a05a1  
  
 <400> 3297

cacaaaactt gctatagcag taagctataa ctcatcttgag gctctgtgag aattgagaaa 60  
 tggctaaaga tgttgagggt caagagcaag gaggagagta ctctgcaaaa gactaccatg 120  
 accctcctcc agcacctttg ttcgaccag aggagctcac acagtgggtcc ttctatagag 180  
 ccctcatcgc tgagttcata gcaacccttc tcttccttta tgtcactgtg ctcaccatta 240  
 ttggctacaa aaggcagact gatacaacgg taggtggcac cgactgtgat ggggttggca 300  
 ttntgggcat cgcttgggcc tttggtggca tgatcttcat ccttgtttac tgcaccgncg 360  
 gtatttcaag aggacacata aaccggcggt tgacattcgg gttgttccta ggacgcaagg 420  
 tgtncgtgat aagggcggtt ttgtacatgg tggcacagtg tgccggtgct atctgtggta 480  
 ctgggatggc caaggggttc caaaagcata cttacacagg tatggagggtg tgccactctg 540

<210> 3298  
 <211> 617  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220055a07a1  
  
 <400> 3298

acgcagtctc ctatcatact aatcatacat actcgacctc accatgattc aatctatcta 60  
 aattcataat ttctaataat actatataca ataccttata aaatatagca ttcacgagtc 120  
 gcgtggccat acaatatcta atactacca aggacacgct cgaagctcgt aaacgagaga 180  
 cgagctcgca atagtattac cattaaacct atacacgtat aatagaatga gtggatacag 240  
 aaatgaaaaa tcattctgct atatttcaca ccataacat ggtcacattg aatagtgggt 300  
 gtgatcacc ctgctgacat cgaaatagac tagtgcattg ctcactactt gttctcgtgc 360  
 aaactagagg atcgtacact cacatcgacg tgcttaatgc tacatctcat atacatcaca 420  
 caggtctaca atagaaatgc ccagacgcag agaaccacct tcttcttcta gtgcacagga 480  
 tctctgattg tggatttcaa tgcacagagc ccagcaatcc caccacagct atgactatga 540

tgatgtctgt actactcgag aaagagtcac tcacttcaat caagtagac gagaatggag 600  
 tggcatctgg ggaaaag 617

<210> 3299  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055a08a1  
 <400> 3299

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 ccgaaatgga gcagtctctg ctgagaggcg aaagcagtga ccagagtaac cggctcgcg 120  
 gaatattccg gcgctccgat gctatcacct acggctccaa ctacgagaaa gccgctgcgt 180  
 tcactgatct ggctgaagat ggtgttggtc tccctgagga aattctcgac tcaccaaact 240  
 tccaaaatta cataagattt tactttatat tcaataaatg caatctaact tgggtctctta 300  
 gttattttgc tttgatagtc ctgaatttcc tggagaaacc tctatggtgt aaaaagctta 360  
 ccacaaattc ctgcaacgat agagagtatt tctatttggg acaattgccat tatctaacag 420  
 atgcagaatg tcttatttat gaggaataa ctcttggttt gctaatacata catacattct 480  
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 ttttctctct att 553

<210> 3300  
 <211> 554  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055a09a1  
 <400> 3300

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 gatcatggat tgaatttaga aaaggctgga gctactgctg ttgtcccaga gaccttgga 180  
 ccaagtcttc aactagcagc tgctgtgctt tctcaggcta aactccctac gtcggagatt 240  
 gcagctacta taaatgaatt cagatctcga catctggctg agctcactga gctgtgtgaa 300

gcaagtggaa gttctcttgg ttatggattt aatagaatta tgaacaaacc caaatctcca 360  
 tccccagatt cattagatga gaccctgtc tccgaaggga cactagcaat atgaagagtg 420  
 gcgcataat acaaagtaga tggcagaaga aaaggagaac taggaaaaaa aaataatcgt 480  
 caaaaaaatg tatatcagat cattagttcc attgttatgt accagaatat agcccaaatt 540  
 agttttatct tctc 554

<210> 3301  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055a09d1

<400> 3301

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 tttttttttt aacccccggg ggggggggga aaaaaaaaaa agggggggga aaaaaaaaaa 180  
 ggggcccaaa cggggggggg ggggtttcac cctcccaaaa aggttatatt ttgccccccc 240  
 ccaaaaaaaaa ccctttggta aaaaaggggg ggggtttaa ccccccccg tttttggggg 300  
 gggaggaaaa cttttaaccc cccttgccaa aggggggaa gttccccccg gggggcctc 359

<210> 3302  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055a10a1

<400> 3302

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 gtctggctcc accttgattg gaatgaagaa gactcttgtt ttctataaccg gtcgtgctcc 180  
 caaggggaag aggaccaatt ggggttatgca tgagtacagg cctaccttga aggagcttga 240  
 aggaaccaat cctggacaga atccatatgt cctttgtcga ttatttaaga aacaagatga 300  
 gagtcttgaa gcttcaaacg gtgatgatct ggagcggact gcttcaactc ctacaactgc 360

caattactgt cccgacgaaa tacaatctga ttcagctttg gttccagcat ctttctcaca 420  
 ggttactgaa gatgataagc ctctaccagt tatttccgag aactccgagg aagcaatatc 480  
 caacattata acccctgggtg atattcata 509

<210> 3303  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055a10d1  
 <400> 3303

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 ttgatataata gcacttaaac tgcagtgcca tatatatgta tatatactaa ccagctagtg 180  
 gctaagttta gtactagatg cattttttaca caaacttggtg cgctctcttt tgggtggttat 240  
 aattaggtga gaagggttta aagtttgata tgattgctgt gttgcttagg ttgtttttcc 300  
 atgaataaga ggcaagtcaa cttcatcaca ccactcgatg tacctagttt caaaataaga 360  
 accctttgct tggttgggca aatagctaac ccaaaactct tcccctattc tccacttcag 420  
 cacactccct tccatctctt t 441

<210> 3304  
 <211> 532  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220055a11a1  
 <400> 3304

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 ggtatgggat tgatgaagct gaggttgaaa gccgaaggag atgggcaagc agtgctcgtt 120  
 ctcaggttgg cacaatgaag aaagcaatgg aatctggcaa gggctcaagt accacaagcc 180  
 atgctagtgt aatgggatg cgccgagaac tgatgaggct accaaattct catcaaactg 240  
 atagctccaa ccagtatgct gccagagata atgatgattt catacaatca gaatcagata 300

gacagacgct tcttataaag agacaggatg aggaattgga tgagctcagt gaaagtgtac 360  
gaagaatcgg aggtgttgga ctcaacaatc atgatgaact cactgcacag gaaaagattc 420  
tagatgagct tggttctgag atggacagta caacanatcg tcttgatttt gtccaaaaaa 480  
aagtggcaat ggttatgaag aaggctagtg caaaggtca gatcatgatg at 532

<210> 3305  
<211> 412  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055a11d1

<400> 3305

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aggaagacgg gccaatatga aaaatatagt aagatcatct caaacttagc atcttctctt 120  
tgcacctaag acattgagaa tgctaaaaat gttacacgca agttccatca caacttttag 180  
cacttggatt agtacaacaa cctttacgaa cagaaatatt tacttgccaa gtttgctttg 240  
cctccaattc aagactggaa gaaagttccc ctctgaatag catcctcgtt agcatttcca 300  
agagcagcct cgttcaagta cttgtcagcc aattggactc tcttgacatt ctcttggctc 360  
tggacaagca tgttaccata cagcaagagc ttcttcagag tcattctggg ct 412

<210> 3306  
<211> 307  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055a12a1

<400> 3306

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tcttcgcaat gaccacgctc aggttctcaa ttagtttcta agaaggaatg agaatgccct 120  
agtacggaac tacaagcatg gtttctcagg attcgcagct cgtctatcaa aggaggaggc 180  
agcctcaatt gtcacaaac ctggtgtggt gtctgttttc cctgacccca ttctgaatct 240  
ccacacaaca cgttcttggg aattccttaa ataccaaacc cacgtcaaaa tcgacaccaa 300  
accaaatt 307

<210> 3307  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055a12d1

<400> 3307

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ggctctctgca ctaaataaga aataaattaa atcgaattaa actgaatata attgacagac 120  
caatatcatt ttgcatactc agatattatt aggacgtcta caaatatggg gcattattcg 180  
caaaattgat tattttaccac tctatagtct atactatact gaatatttac tacacggtga 240  
tataaactat gtgttct 257

<210> 3308  
<211> 480  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055b01a1

<400> 3308

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ctcatttgag ccaactggac tttatgggga gtcattctgtc cgcaaagccg atcttcggac 180  
tgccaaggct gacattattc acaagatgga tgatccttat ttaggggaag gtataactct 240  
cctcaatagc aggctcttac atggaactcg agcgcggaca catggctcca tatatgaccc 300  
acaacattta cgccaattg ggacatttaa tcatgatatg aatgatgcta gccgtctggc 360  
aactgctgga acagtcttgt tcggaagtga tcggcagttc aacattgcat taaatgattt 420  
aaactgatcc tcatacattt aaagctgtat cacaacgtgt agactactaa tgagggcatg 480

<210> 3309  
<211> 494  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055b01d1

<400> 3309

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tttttttttt tttttttttt tttttttttt taaaattaag gggggattcc aacccccctt 120  
tttagggggg gaaaaaattt ccatcccccc aaaaaaaaac ctgtaacctt gaaagggggg 180  
ggttttccaa aaggtgggtc cccccaggtt ttaaaatttt tttgaaaaaa agggttttta 240  
aaaagggaaa atttttttac ccaaaaggcc ccttccttg aaaaaaacc ccaaaaaacc 300  
ccaaaaattt gggccaacca aatttccaaa attccgggga attttttaaa gggggcccaa 360  
aaaaaggcaa aaaaccctt tggggccaag ggaaccccc taaaacaacc cctaaaaaaa 420  
aaaggggctt tcccaaatta aatttggggg gccaaaaact tttggccaat ttaaaaagcc 480  
ccaattgaa cccc 494

<210> 3310

<211> 594

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055b02a1

<400> 3310

ggggagcctc taagttcaga ctataaagga gggtattatt gttgttatga tcaaaccag 60  
tgcaggttga gggaaggctt tgagggccca agaggagcct ctacctaga tacacagtga 120  
agtgggttga atggaacaag ttcattgtgc ctgtaaagat ttatatactt gatgtcactg 180  
atactttaa aatatcagat gattctagtg gaatgatccc tgagcatgat tgcaagaccg 240  
agtatgaagt tgaatcttgc agcactggcc aaaagaatgg taatggctgt cttgatgtga 300  
agagaacaag cctcccaatg caaaagggtg gttatgtcat atatggtgtt gctcatcagc 360  
attcaggtgc cactggatca actctctatg cacaggatgg aagggttata tgttcttcaa 420  
taccaaggta tggaaaggga aaggaagcag gaaacgaagt agactacatt gtaggaatga 480  
gcacatgtta tctcaacca ggttctgtaa gataattgat ggtgaaacta taactctaga 540  
gtctaactac agcagcagcc gttgccacac ttgagtaatg gtgcttttct acct 594

<210> 3311

<211> 459

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220055b03a1

<400> 3311

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ggatttgcag agcacagaag attccaagac tgggccaaac caggctctat gggcaaacia 120  
tacttcctag gactagagaa gggctcttga ggttctggtg agccagctta tccaggagga 180  
cctttcttca acccactagg ctttggttaag gatgagaagt ccttgaagga tttgaagctc 240  
aaggaagtga agaattggaag gttggctatg ttggcaatct tgggttactt tgttcaagct 300  
cttgctacag gtgttggccc ataccagaac ctctagatc atttggctga ccccgctcac 360  
aacaacatct tgaccagtct caagttccac tgaatgtatt atatgttatt gtacataatc 420  
tttacgttgc caaaacttaa ctacctttct acctttcta 459

<210> 3312

<211> 537

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220055b04a1

<400> 3312

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cttgtttcat tttctctcga agcaagaaaa atgttcatcg agagtttcaa ggttgagagt 120  
cctaactgta agtacacaga gactgagatt cagtccgtgt acaactatga aaccactgaa 180  
cttgttcacg agaacaagaa tggcacttat catgggggtg cgacgtccta agactgccta 240  
tgtgccttta aaaccaacac ccatgtccct aaactagggg taatgcttgt ggcgtggggg 300  
ggaaacaatg gctcaacct caccggtggt gttattgcta accgagaggg tatttcatgg 360  
gcaacaaagg acaagattca acaagccaat tactttgggt cgctgacca ggcacagct 420  
attagagtgt ggtctttcaa ggggaggaaa tatatgcccc attcaagagc ctgcttccat 480  
tgtaaaccct gatgatgttg tgtttggtg atgggatatc agtaacttgg acctggc 537

<210> 3313

<211> 465

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055b05a1

<400> 3313

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tgcagcaaag gttactggca tgcttctgga gatggaccag cctgaagttt tacatctgat 120  
tgagtcacca gatgctctga aggcaaaagt tgctgaagcc atggatgtgt taagaaatgt 180  
tgctcaacag caaactaacc cagctgatca actagcttca ctctctctca atgacaatct 240  
tgtgtcttag attccttttag tcttttgact ggaatctgct ttccagttat tcctattccg 300  
tatgcttccc ccagttttat ttgcagggtgt cttagatggt ttgttttagt cagagtacta 360  
aggaagttta tgttcttggt acttttggtt tcactttttt tcgtatctga attgctgtaa 420  
gatggattag cataacttgg tggatttatt agatatgcat ttgcg 465

<210> 3314

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055b06a1

<400> 3314

gatcaacata tttttgttga catatcactt tgacatacat cttaatatcc ttcaaatttt 60  
tcagaaaacc aaaaactata aatcccttat gcagtaccaa gcaccaaagt gctttcaatt 120  
aattgacttc tgagttatca caacttggct caattctata ttagaagggtg aagtgtagaa 180  
tagagctcca ttaacttaca accacatcgc cctcctcacc cattgcaact gcagctcgca 240  
cagctaccct cctaattgtca tggagaaaaa gtctatgacc atttggaaga ggtggataat 300  
agtcattctc tccatatttc aggtagtctt gcctcgtcca tcctaccca gctaacatat 360  
catccaatat gtccaatgga tcttcactct tgggattgtc agatgtcagc atggtcactt 420  
cacttttatc tgggtctatc ttggtcacat cgggcctctt cccctgtcgc cctaccacag 480  
catccaatga cagttataac cctgcgaggt ccaagctctc tacagaatcg agc 533

<210> 3315

<211> 444

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055b07a1

<400> 3315

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gagagagaga gagatgatgg cagacgatat cctcaatgtg ttacctaattg gaactgcccc 120  
gtccttttcgc gaccgagatg attgtgttgg acagacacgg cctccaactc gacgtcgatc 180  
agattccccgc cttcggagac tcatgccgga catctcacia cacgggggttc cgtggatgtg 240  
ccaaatatta ccatcgctct tcgatactaa acgctcaagt gaactcttca ctgctgatga 300  
tctgcctgtg gttcacgctc atgggtgaacc attcagccag cctatatgtc accgccacaa 360  
tctatatcga catcttgagc ctgtcctccg atatgacgaa cacacacctc tttactgtac 420  
acactccttt aagatcttat tcac 444

<210> 3316

<211> 294

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055b08a1

<400> 3316

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aatccccctgt actacattca gtagttcctt cacctctcaa caatctagct tgctcctatc 120  
tatctatatg taataagatg cggttcaaata ggggcactag cttcacttta tgttgtttca 180  
gctgtgtgtc aacaagtcac gtaagagact tcactatgtt gttttctctt tcgtggcttt 240  
aataaattat gcgcccttgt tccaaaaaaa aacagaggtc atacgcatta gaag 294

<210> 3317

<211> 150

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055b09a1

<400> 3317

gctcgattac actcatatat ctattatatc ttattaagca actatataac ttctccgcta 60

tattctatct gtatatctac ttccaatctg atgtctatac tgacatatat atactacatt 120  
agatctatta caggtggctc ccgacgatga 150

<210> 3318  
<211> 444  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055b09d1

<400> 3318

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aaagaagatg gaaaaaaaaac gccactgtat acttagccat taaaaggaaa ctcaatcagc 180  
cggacatgga agatcactca agttaccact caaaaagagc tgcggctagg cctatcctgt 240  
gcaacattca ctctgatagc cctcccgtcc aaactctgac catcaagggc agcaattgca 300  
tcattcatat cagtctcact agacattgtg acaaagccaa aaccacgtga tcgaccagtc 360  
tctctgtcat agaccaccgc agcactctca acctaccat gttcactgaa aatttgctcc 420  
agccgagcat cgtaacttcc catg 444

<210> 3319  
<211> 538  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055b10a1

<400> 3319

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caaagcccct tgttttgcat agagctactt aaaatgtcgg agggaaatgc tgagagagga 120  
aagagaattg ccattattgg tgtctcaacc ttattgttgg tggcgatggg tgtggctgtc 180  
acagttggtg tcaatgttag tgagaatggg tccaacaatg aggacacaaa aattgcttct 240  
tctgtaaaag ccgtccaaac cctttgccat cccacaaatt ataagaaaga atgtgaggaa 300  
agcctcatag ccagggctgg aaataccact gatccaaaag aacttatcaa aattgtcttc 360  
aacatcacca ttacaaaaat tggcgataaa ctcaaaaaaa ctaatctttt gcatgaagtt 420

gaagaggatc ccagagccaa gatggcactt gacacatgca agcaactcat ggatctttct 480  
attgaggagt taacaaggtc acttgatgga atatgtgagt ttgacctgaa aaatatcg 538

<210> 3320  
<211> 513  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220055b10d1

<400> 3320

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aacatttgtg ttcaatatct gccgatgttg gcatgctgca ggtccacaat gagagttgca 120  
atagaagaaa taagatgaaa aacatgattg atccattagt tacctgcaca agccatagta 180  
cttgcacaca acatatatag tacgtaaatt tatacatatc taagagagaa caagcaaatt 240  
agaaagatta aatctagaag gaaagctgca atagcattac aaagccacat ccctaaccat 300  
ggcggatgat gataccagct gcaacttcag tctgacgtaa gacaggaacc aaacaaattc 360  
aaagaaccaa gtgctagcca attntcagag catcactgat tntccactg tttgcactgc 420  
accttgagca gatactaaaa aatttaatac catttcacca gttctcttct tgtggtagat 480  
tacgactgta gaatggaaac tcgaagagaa aag 513

<210> 3321  
<211> 558  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055b11a1

<400> 3321

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ctcccaatcc gaccgtgtct tcgtccgcgt cgacaacaac cccgtttcct tccccgtcgc 180  
cgacgactcc gctttcgatg actccccga cgactactac tacgacgacg gcggcggcgg 240  
agttagcggg ggtcccttgc cggagggcgt gaggagggag attctggagc tagggtttcc 300  
ggatgatggc tataactact tgaatcactt gagggaaatc aaaaacaccg gcgctggtgc 360

tgctttcttt cacaaccca agttcaagct tcaacacctc cctcgcgatg ttaaggcata 420  
 tgatgcttcg agattgcaaa tttctgatgc ggatggagag gctgtggaga acactatata 480  
 cagtggcgcg ttcaaaacta ccagcgtaag ggtgcagaaa gcagttgatc ctgaagtggc 540  
 tgcattgctt gatgatga 558

<210> 3322  
 <211> 562  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220055b11d1  
 <400> 3322

gaaaacgaaa ttaaaatttt atttataatt tccattgatc actgatcagc tctataacat 60  
 taatttccaa ctgaacactt ctcaattcca ttgcagccac tttctatttg aatagattat 120  
 taagtatgca tgatatataa agattcaaca gcctacgttg gaaactttcc tccaactcag 180  
 tatcttgagg aattaaagta ctcatgcaac tatcactcta aaactttctg cagcatgatt 240  
 ctcaaactct cacgtcacat actgtaatta aggttaacaa tgctttattt tattaggcat 300  
 tgttccaacc ttctgattca tccttcattg ggttcggttt gtaggaatgg agcatgaagt 360  
 tgcacgcacc aacagcctct tcaactgtca gatagatcca tttttgcccc agttcatcaa 420  
 ggaacttgga tttgttcagc ttcttcattc cctcgcttcc tggattcacc aaagcaggct 480  
 acacacatat gaaggaatga ttataaaaaa acaatgtctc tcaagtaaaa ctatttagcg 540  
 aaaaatatta gcttaatgag aa 562

<210> 3323  
 <211> 634  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220055b12a1  
 <400> 3323

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ttgtggacaa gcagaatata aaatggcatt taagaattgg atgcatgaaa ggccagaggt 180  
 gcaggctatg aaatggagca tcagattgag accagggcga ttttttactg tccttgaaga 240  
 gttgagagca ccacaagaat ctcagcatgg agatgcagta atggaggctt tcgtcaaagc 300  
 ccggagtggg tctgttcttg ggaaaggcta catactgaaa acgtatttct ttcttgggtca 360  
 gagaacttct agccacatac aaatacatgg tgcaccacac gtttacaagg ttgatgaatt 420  
 ccctgtgtat agcatggcaa ctccaacat ctctgggtgcg aaggagatac tatectaatt 480  
 ggggtgctaag cctaaagcaa atgtctcatc tgctcaaaag tgatatngac tgatctgaga 540  
 gaggaagcag ttgtctatat caaaggcact ccctttgtcc tagggagttg aacaaactcg 600  
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<210> 3324  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055b12d1  
 <400> 3324

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 aaaagggaaa atgcataaac ttttatccaa ctgaaaacta aaagggacaa tttaacccca 120  
 aacaaaataa agcatcccc cataaaaagg ttcaatcctg ttgaaaaag gaaacaattt 180  
 ggtcgatcaa aacctgagca ttttcacaat tgggtttgaa caaatgaaaa acatggccct 240  
 aatccttggg ctcaccatt tccgaaacac cagaccacc atttttttta agcaactcct 300  
 tatagtacaa accctgtcc ctaaccaaat ctttttccgc aacacaaaga agcaattttt 360  
 cacaagctaa cttccccagc ttcggtatcct tactcgggtt aata 404

<210> 3325  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055c01a1  
 <400> 3325

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tctttgtata tgcactctgg gatttgactc tgctgcgcca tcctatgggg gacaacgaca 120  
 gcatcaacga tgccttcatg cgcaaccgag acgccggcgt tcaggaccgc accaaagcgc 180  
 agaaccgctc caacgtcctt cagctcaaac tgattggaca gagttacca accggtctca 240  
 cagcgaacct gttgaagctc ttcgagccta ggcactccgt tgggggacaa gccacctacg 300  
 gagagacgac aatgcccacc ggtatcaggg atggcacaat ttgagagcaa gtgtgccgag 360  
 cctggccagc cataatacgc tccacctgtc ccagaaactg agactcctgc acaaaaaaga 420  
 gccagaatac acaagctaag gcttgagaag ggagctgcag aagctg 466

<210> 3326  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055c01d1

<400> 3326  
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 ttaattactt ttctctcttt attacagatc agaaattaac acaagggaac acagggggga 180  
 tcatgaaatt aaaaatcagg ggcgaaaggg gcatgctggg tggggatgaa ggcataggta 240  
 tagataagac cagccaaacc accaccaata agaggggcaa ccagtagat ccagttgtca 300  
 tgaaagtcac cactgacaac agcaggggcca aaggagcgtg cagggttcat ggacccgcca 360  
 gaaaatggcc ctgctgctaa aatgttggca ccaacaatga aaccaatggc aatgggtgca 420  
 attgggcca atgaaccctt cttaggggtc gc 452

<210> 3327  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055c04a1

<400> 3327  
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ccttgctcggg gatcttggtg tttatttttc acaccacttg tgaaacttct caagaaaaag 180  
 aaaaaggatg tttcttgatg attggttcta tggaattttg gcgaccctag gcctgtggca 240  
 caaggaggcg aagattttga tcctaggggt agataattct gggaagacca ctttgcttca 300  
 catgctcaaa gacgagagac ttgttcagca tcaactaact tgatattcca cttctgagga 360  
 gttgagtatc gtgaagatat agtttaaggc tttcgc 395

<210> 3328  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055c05a1  
 <400> 3328

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 taaaggggaa cttggtgatt atgcgaaaga atgtgttgga tatcaacagc attaccagtg 120  
 ttaagggtgt catcggaacc ggcattaaca tcattggagg agtcgtcgac accgttactg 180  
 ctttggcgtc ccacatcttc atccagctca ttagtgccac caaggctgat ggacatggga 240  
 aaggaaaagt tggaaaggct acaaatttaa gaggacaagt gtcgttacca accttgggag 300  
 ctggcgaaga tgcatacgaa gttcattttg aatgggacag tgacttcgga attccccgtg 360  
 cattttacat taagaacttc atg 383

<210> 3329  
 <211> 516  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055c06a1  
 <400> 3329

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 ttcgaattcg aattaggggt ttgcgcatcg tcatcgaatt tttctcttat gcaaggaagg 120  
 ttttcttct cagatttgaa ttgattgaa cgagtagtgt taagattatg atattttttg 180  
 agaagcttcg tttctctcct cacttgagcc gtttcattgc cggcatcctc ctgttaatct 240  
 tctgcaattc attccagtta gtctctaatt tccccattcc tatacagcct tagattcaac 300

gtcgatcgct acactcttct ctccgattcg tacgattccg tattcgatat tcgtttgggt 360  
gattcactcc tctctctctc cgctttcgat tcgttggtga ttgctgcttg aacaattaaa 420  
catggaacct aatcagctct tctccacgca ttttcgcat ggtactattg cctcatgcat 480  
tgagggccaa cacagaggag ctatcccttc cgtatt 516

<210> 3330  
<211> 535  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055c07a1  
<400> 3330

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ccaagcccg ccaatctggc ggtggcaagc agaagaagaa gaagtggagc aagggaaagc 120  
aaaaggagaa ggtgaacaat atggtgctgt ttgatcaggg cacctatgac aagctccttt 180  
ctgaagctcc caaatacaag ctcactcctc cttgcattct ctctgatcgt ttgaggatta 240  
atggatcact tgcaaggaag gctataagag aattgatggc aagaggttct atcaggatgg 300  
tgtctgcca tgcaagtcag caaatattata ccagggcaac aaacacctag gtggtgaact 360  
gatcttagtt tacggagtat tggtaggaat agtgaagtat tggtcttttg aagtttgaga 420  
tgcatctcat atagcttcta tcagatctag attggtgctg aatccgaggc tgagattgta 480  
tttttgatt ccttcaatgt ttatctattt ggatattatg gcagttgtct tatac 535

<210> 3331  
<211> 574  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055c08a1  
<400> 3331

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ccgttgtagc cattgggctt ggtgcagtat atctctattc atccaagaag accaaagggt 120  
gcttggaacc agagaacttt aaggcattca aacttgtaa gcgtgcacag ctgagccata 180  
atgttgcaaa gttcacattt gcactcccaa cacctacatc tgttttgggt cttccaattg 240

ggcaacacat aagttgcagg ggtaaagatg ctcaaggtga agaggttatc aaaccatata 300  
 ctectactac tttggattcc gatgctggac attttgaact agttattaag atgtacccac 360  
 aaggaaggat gtcacaccat ttccgtgaga tgcgtgttgg tgactacctt tccgtgaaaag 420  
 gacctaaggg acgtttcagt accaacctgg cgaggtagg gcttttggga tgcttgctgg 480  
 aaggtctgga atcaccccaa tgttccaagt tgcctgagct atattagaaa accctaata 540  
 caggaccaa gtacatctta tctatgccaa tgta 574

<210> 3332  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220055c09a1

<400> 3332

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 accaacaatgg actcgacggt ggcacgcta acccaaacag ttctcaggaa cgagagctgg 180  
 cgcaaaatga tgcggtcatt gtcgtttag tctcagcaa aaaaggaaaa tagggttccg 240  
 gagtgagttc ctttaactct cgactagtta attaattcac actcgctctt ttgtgatttc 300  
 ctttaactcc atatagctag aaagaaagaa agaaataaag aaagaaggaa atggttatct 360  
 ccttcaacgg aaccaggatt ggatttggtg cgctagtttg ggtttcacga tttctgcata 420  
 cttggaatct taaattccta tctogaatgc taattcttct tttttagggt ttggcgtag 480  
 ttgcgcgttc ggtatagtag ggggtttcgg aggtttatgc cttatttctg aaccatttta 540  
 gacatttcta tagat 555

<210> 3333  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220055c09d1

<400> 3333

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tatattcaaa tgaaataaaa agatattaaa agatactaata tataagaatt tgaaagtga 120  
attataaagt tattaatatga ttaatcaatt gggttctacc tgtgcctgta gtaaaaagag 180  
ttccatctgt tcttgaatag cttccttcaa aaggacttct gcttccccag tgaatgtctt 240  
ggtagaagat atgatttctt tgaattgagg tttattcgtg ttttaagtaag cacgtaactt 300  
aacaagaaat ttccttacct gtgcaatttc taatgaatca agataaccat tcggtccagt 360  
ataaatagtt attatctgat cttccacggt aagaggagct gattgggatt gcttaagcaa 420  
cttgcgcaat cgttgacctc tcgctaattg attttgagta gctatatcga gatcagaagc 480  
gaattgggca a 491

<210> 3334  
<211> 519  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220055c10a1  
<400> 3334

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gaaaaatccc tccgagtcaa ctgggacgag ttgcctcatc gtacgggttc ttctcggac 120  
tctttctctt tcttccccctt ccgaatcacc gttcgcaggg ttttgccttc tctctctctc 180  
tgtctctcgc ttcggtttcta gttcagatct cgcattggct tcagctgaaa ccacgcggtt 240  
taatttcatt cccttaaatt agggatttat cttatgtcga aacacttgaa gtgatgatgg 300  
tgtggttggt gtgagaaatt aatgatcggt gaggggtgtg gacattggta cagagctttc 360  
agtgtagtgt acaactacct aggaggggaag aagaggaatc tttcttcgcg cgttgctcgtg 420  
tgccgcggtt gctgtactgt tgatgggtctg gaaactcgac agccctgtgc agactcagat 480  
ggctgtggca gtgattagga gcagtcact tgggagaga 519

<210> 3335  
<211> 552  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220055c10d1  
<400> 3335

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 tttttctcca ttgtagttgg agttatacat tacatgaaat aaaataatat cttctcgatc 120  
 atctcaggtg ttggcatgac atatgccagt gttctgtatc atgacacctat gtcattttctc 180  
 ctttttttct gtagcttccc tttttctata aaaaaatatac ttatgatgct tttaactata 240  
 taccaagatg cctgaacttg caaaaatatg caattacaca agagcagcct cttgtgtgtg 300  
 cttttcctgt gttgctttga tgtgcccaac ataaagatca ctcccatggg aatcagctgc 360  
 cggaagtctc tctctccgac caccctcaga catgcttctt acgaaatcca ctaggtgccg 420  
 ccagttgtca gcttaaaca cctcttggtc attcttagat atgtgaatgc agccaatcca 480  
 cttgccgatt ctgacttact ttgtgataaa cttgagcata tgcactctgca tcatatctct 540  
 cccatgcatt tt 552

<210> 3336  
 <211> 612  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055c11a1  
 <400> 3336

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 gccggaaaaa taaaaaagga ataacaaaaa tgtctggaaa ggtaattatc tcggctgttt 120  
 ctctcatcct ggtggttgga gtggccatag gtgtggtggt ggccgtcaac aagaagggcg 180  
 aggatccac acttcaatct caacaaaaat cagtaggggt tatctgcca aacactgatg 240  
 accagaagct ctgccacgaa accctaagct cagtgaaggg catggacacc gctgatccaa 300  
 aggcttacat cgccaaggcg gtgaaagcca ccatggacag cgtgaccagg gccttcaaca 360  
 tgagtgatag gctcagtacc gagtacggag gcaacgataa cggaaccaag atggcccttg 420  
 atgattgcaa ggacctcttg caatccgcta tcgagagcct ccaactcagc atcgacatgg 480  
 ttcacaacaa caacttgag gccgtgcata accaacaggc tgactttaag aactggctca 540  
 gcgctgttat ctcgtaacaa caggcctgca tggaggggtt tgaccatggc aaagaatgtg 600  
 agaagaagat ca 612

<210> 3337  
<211> 390  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220055c11d1

<400> 3337

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cgcgccgcac tgacctaaact cgtcctgttc ttcttgagca acttgccatg ggctagcagg 120  
aggtacagcc tgaacacaaa cttggcaaag tcattctcat acaggtcctt ggggtaatcc 180  
gctccaagct tgtacgccgc ggccgttccg gagatgacgg cgacttcgtg ggcggtgacg 240  
agggtccaag cggcggcata tgcgtatgc ttgctgttcc tgttcaaagc ccagacgaat 300  
ggcacaacga aagcgtattg cgtccaggaa tgcatcaact gatgccacca gtcttcccgg 360  
atgatcttgt ccttcttgat ctcacctttt 390

<210> 3338  
<211> 544  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220055c12a1

<400> 3338

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cttaccttag atgttagagc catggacata accccaacaa caacgatcaa caacaacaac 180  
actactccca gtgcaacaac aaaatcccca gaaaatgaaa cagaaacacc gaccaggatc 240  
accaccccca tcaactccac aacgacaaaa acctcatctt tctcgaatgg tgcctcaaaa 300  
cgcacccacc accaccacca ccttcaccac cctatccctc cggtgggttac ctacaaagaa 360  
tgccttaaaa atcacgccgc caacttgggt ggccacgcct tagatggctg cggcgagtgc 420  
atgccctctc cgaccgccac cgctgccgac cccagctcca taaaatgcgc cgcctgcggc 480  
tgccaccgga acttccaccg ccgcgagccg gaggagccct ccatcgnctt caccaccacg 540  
cacg 544

<210> 3339  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055c12d1

<400> 3339

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 ttaggggaacc aagatgaggt cattgataat ggttgatggt catacggaga aagaggatgc 180  
 aaggccaaac tgaaggcccc agagctcaaa agatccctta acaaagtcatt agtatcctcc 240  
 ttttagtgac aatgtcttgt tcaccaagcc atctctaaca aatgggtatg ttagaagggtt 300  
 tccaagggaa acattcacag cttccttctc acagtgtgag cacaactcag caaaagggtgc 360  
 atcccatgt tgtgtcttca ctttgcctt tgcaggcaag ccaattttga cccactcctc 420  
 aataaaatca gtagagtagg ttccatcata tgggaaagac agaagcccct taataccacc 480  
 acaagcact 489

<210> 3340  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055d01a1

<400> 3340

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 aagtgttccc gctgccacta attcaaggct ttcacctctg aagccagaac ctgttgatta 180  
 taattatggc tttggtgcga cagttgatat acctcttgat tcatcaacgg atttgaaaaa 240  
 gaaggagaag gaacttcaag ccaaggaaac tgaattgaga aaaagggaac aggaagtggag 300  
 acggagagaa gaagctgctt cacgagctgg aattgttctt gaggagaaga attggccgcc 360  
 ttttttccca ataattcatc acgacattgc taatgaaatt ccaattcatc ttcaaaaatt 420  
 gcaatatggt gcatttacta cactgttagg attagtgttg tgcctttttt ggaatgttat 480

agctgttact gcagcttgga ttaaagggtg

509

<210> 3341  
<211> 501  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220055d01d1  
  
<400> 3341

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gtctattgac agcatagcat ttgggaatta tgcaaaagga acaataatt taacaggcaa 120  
aacaagatat atgaataaat gaatggaatc gtacttcaag tgagtttacg ccaaagccct 180  
cccttggttg ctgttaagca cttcacacgt cgaaaaacaa aacctgcctt tggaggtctt 240  
ccatcaacaa gtgaattctc atatatctct ttgcactctt gaatgacctc cttggcatcc 300  
ttccgaggaa tgccttctcg tagaccaaca agtttctcaa caacttcagg cgggcagtca 360  
ggttgatggt cgagtatatt tgtatagatg agtgtaaagg tatccaggct ctctgctgaa 420  
gcaagctccc tcaagtcgct aagtacactc actctgtttt caactttaga aacactgata 480  
tgttccctta aaaagtccat g 501

<210> 3342  
<211> 447  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220055d03a1  
  
<400> 3342

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cattcacaag attgaggaga cccttcatgt gggaggcccc aagatggagg aggagcacia 120  
ggttgagctt aagcttcgag aagaatgcaa aggtgtgcc aatggagaa cacagtcttg 180  
aataccgagg caagtgtcat gccgatgagc caaggcttgg gaagaaggga ggatctgctt 240  
taagcaagag tgtttataga ctggaatcac agtcctgata cactggccgg tctgctgcgg 300  
caggctgttc gtgcaagctc cagatctcta cgagcggacc atgcggtgca ttaacatcga 360  
cacgtactg gtccttgaca tggccgctta tctaacccta aagtgccgtg ctaacgcct 420

catgaaactc gtcttcagaa tattccc

447

<210> 3343  
<211> 344  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055d04a1

<400> 3343

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caccctctac ttccgccaccg cgcagcagcg tcggagtttc gaccaaactct gtcggaaggc 120  
cgaggatggt cgccgatttc gcgaggcccg tggggcgtgt ccgagcgggtg acgagcgacg 180  
acgagtgggg cccggagaag gaggaggagg catacggcgg aggagtggcg gtggaggaga 240  
aaccgacgga gacggaaacg gagaagctga agaaggcttt ggaggattcg gtttatggac 300  
gggatctgga ctgaaggcac gagtgaaccg agagcagaga tcgt 344

<210> 3344  
<211> 547  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055d05a1

<400> 3344

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gtagaccgcg tgttgcgtat gaccaacaag gcctggtctt tgctgtagca atggaagggg 120  
gagctattaa attatttgat tctcgttctt atgacaaggg tccctttgac acctttctag 180  
ttggtggtga cacagccgaa gtttgtgata tcaaattcag taatgacggc aaatcaatgc 240  
ttctgactac tactaataac aatatttatg ttcttgatgc atatggagga gagaagcggt 300  
gtggatttag tttggaacca tctcctggta cccaataga ggctacattt accccagatg 360  
ggaagtacat ggtggcagga tctggaagcg gaaccatgca agtttgaggat attgagacca 420  
aaaatgaggt ggcattgttg accagccata ttggggtgcc ttcgtgcttg aagtgggccc 480  
ctcgcatggc catgttcgct gctgcttcag tgttcttaca ttttggatac ccatatgatt 540  
aaagctg 547

<210> 3345  
<211> 522  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055d06a1

<400> 3345

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ttcttggttt agtttgagct ttgtttggta aacttgtcaa gggggaattg cagtttctga 180  
tttgtgaaac tacaaaaaat tgaatttaga actgataaag ggtctaatag aagagttacc 240  
accatatcat gttataccaa actagcatta gaatttatca tgatccttat ggatatttgt 300  
tagtaatgtt cttagttctt atatagtact agaaagtggg gcttgaaatt tcaactacta 360  
ttattgggtg agaggctcaa tcgagttaaa agtgagaaaag caatttaaag tctttgaagt 420  
gaatttgat caaatgggtc ttctgtgttt acccttatgt gtgttcttca ttctacaata 480  
gctctaactt gtggagcttt gatgatattc tacttcaaag ag 522

<210> 3346  
<211> 616  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055d07a1

<400> 3346

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ggcaagtctg tagttgagaa gctactttgg atggcaattg tgtgcttggg gctgggtgta 120  
atttcatta ctccaaggc ccaagcagca gtgacatgca accaggtggg gagcaacctc 180  
accccatgca tttcttatgt gctcaatggg ggcaaaaccg tgcttggtcc ttgctgcaat 240  
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tgcataaaga acgctgttag tgcgttccat tatggcaagt ccaatgtgga ccgtgctgct 360  
gctcttccta agcagtgtgg ggttaacatt ccttaccaga tcagcccttc caccgactgt 420  
accagagtgc agtgagggtta atgatatatg gagcggtaac tctagatgag aaggatatac 480

aatatatagc tagtgtgtga ataagtggct ggctatacgt aggccacaca ttacattaat 540  
gactggcggc tgctaataatt acatccatca ctaattttgt aacgaataat gaacttttta 600  
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<210> 3347  
<211> 559  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220055d08a1  
<400> 3347

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ctctcccttc aaccctcaa tctccctcac caacaccttc tccctctccc accgcaccct 180  
cctcctcctc aaccctaacc ctaaccctaa ccctaacccc cgcccttggc tcgtcaagct 240  
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gaaactgccc cgtttcgccc tcgacctctt caccctcccc gccctcgacc tcggccgcca 360  
gttctcctc accaacacgc gccacaccgc cgactccctc tacattgaaa agctcgtctt 420  
cctccctctc acccatcgaa aagaccgttt tgccctcctc acgatccacg tctnncggaa 480  
actcgccctc ttccgctccg gcgacgacgg cttgaccgtg atccccgaca tgccgacccc 540  
ctacgacgac gtctgcgtc 559

<210> 3348  
<211> 507  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055d09a1  
<400> 3348

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atggcacacc agacagcagg acaggaacta agaggaaaga acctaataca cagggcttgc 180  
acaatcacc cgagcagaga cctttgcggt gggatcctct gatcggaccc aatcagaagc 240

cctgacgcag acctcaagga cttggcacgt tatctccctt agggttgctg ccagaaacgc 300  
 ctacgggatg ctacagcgaag ccaaaatgtt gatcgatgac cacaacctag accccgacga 360  
 tcaacaagga ctgtccgatt gcaaggagac aatcttggac gccgagagcc agctcgagga 420  
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<210> 3349  
 <211> 592  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220055d09d1

<400> 3349

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 atgtctgatg gtacatgtta tatggacatt tgaggaaaat aaattgaaca acaagaatac 180  
 tgaattccta ttactaaact tacaagtta cactaattat caagataata taacgtcaat 240  
 aataacacaa acggcataat tcttgggagt ttcctccgtc aatcaagttg gtgtgtctgc 300  
 accgtcccat cagctccatg gacgagaact gccataacct ctcccgcggg cttggaaacc 360  
 tcggggacct gaaagtggag gtggtgcacc acgccccatt gctgctaatt caagactcac 420  
 tttctgtcca gtttctcga gtatggctat aagttcctta gcaaactctgg cattagcagc 480  
 tgtgaagtat gtgtacgcag ttncctttgc accagccctt tcttgctcgc caatgcgatg 540  
 aacataatcc tcaagtgacc ccgggaaagt catatttaca acatatttta ca 592

<210> 3350  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055d10a1

<400> 3350

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cttactcgat actaaggcta catcaaagat gcatgggacc acggctcccg ctcttaacat 120  
agctgaagta cagaatcaac accccatgcc gtgtccgatg aaaaaaccc accaacgagc 180  
tgaccaaga tcgtgatggg tcatacctcc actcaactgt ccctcacgag gattctgtgg 240  
acggcgacgt 250

<210> 3351  
<211> 522  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220055d10d1  
<400> 3351

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agataacggg tgtctgtatg gtttgatgat tcttgaggca cctcgtaatc gaccagaggt 180  
tcgtcgacgc tagatgctgt gtacttgccc acaggttgtg agagcttgct atcgcggtag 240  
gtctcgccga agccgcggcc aaaccattcg actcgttgga attgcttagg aagctccata 300  
acgagaccga tgcgtggaag ggtccgaggt aggttctcac cctttggtgt accgacaaca 360  
tggaacagaca gattattgtt ggcgctgaaa gtgtacgtaa gaacgcagtc gacagaccaa 420  
gagagaactg gaggtgcgac acgttgatgc acggtaacct tgagggtctc tgagtcagac 480  
tgtgaccatt cgaccttgcg agtcaatggt ttcgctgat gc 522

<210> 3352  
<211> 569  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055d11a1  
<400> 3352

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atgttttgct gttcactcta ctaaattttt ctagcaatgg gaattatatt ttacaagcat 180  
ggtttggggg atcttaaagt ttttgctgtt cactctactt aagaatgttc ctttttagcag 240

ataagtttat tttgtcttgt ttatttgatt gatcatgcta aatgtattga actttttatc 300  
atgttattct gcagcttagt attttaaatt gtgttggtgca acacaataat tggatgagac 360  
attgagttgc ctggaattat ttatgagttt ctttttttta agattagttt tttcttcttg 420  
cttcttagat gaagctttgt tgatctaggt ttgtgcactt tgggtgttctt aagtgtagct 480  
aagttgatga tgggatctta aagatatgtg ctttcatttt gtcagaatat gtccgcatga 540  
gctcacgatg aactgattta tttctttga 569

<210> 3353  
<211> 548  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055d11d1  
<400> 3353

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ttttgatcat tactgggtaa tccataaaag tattacacac aaattcttca actgacaaaa 180  
aattgagctt gaacactttt cctgtgtccc cctccctttt tttccatccc cttgtcctat 240  
ataaattaaa gcacttcacc aggttgataa gccaacatga ctcatgcacg cctgtactca 300  
tctccacaat caccaatcac tttaagcaga tcttttctt tctgtgtggc ttctcttatg 360  
ctgttcacgt catcttcacg gagaacaagt gaaaagatag cattggtatc ttgaatatgt 420  
tctgccaagc caagtctgac accaaccatt gatcctgcta ctgcaggctg atctagtata 480  
tacttcacag caacagttgc gatcgatacg ccatgtttag aagctacttg tttaagagtc 540  
cgaagcag 548

<210> 3354  
<211> 475  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055d12a1  
<400> 3354

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gacaaccgaa attaggtcat catgtcgggc atggagagggc ttcacaggat gttcgctggg 120  
gcaggtggag cgctgggtca tcctccaccg gattctccca ccctcgattc ctacgagcag 180  
gtctacatct cctccctcgc ctttctcaaa atgctcaaac acggaagagc tggagtaccg 240  
atggaagtga tgggtctgat gttgggggag gtcgaggatg agtacaccgc tcgcgttgag 300  
gatgtgtttg cgatgcctca gagtgggacc ggcgttagcg ttgaagctgt tgatcatgtt 360  
actcagactc atatgcttga actgttgaag cagactgtaa ggccggatat ggatgtgccg 420  
tgagttcact cgcattgctgc attaggggtg tgactttttg gagtggacat taata 475

<210> 3355  
<211> 355  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055d12d1  
<400> 3355

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aattttatgc atcacattat gcctttctat atattaggca acacattcca agctgaacat 120  
gctaaatccc taagaagcat ccatgtcaag gggtcacacc attggcaatc ccattttggg 180  
aaacgatact tggggaggcc aataaagggg gcttttttaa ccagtattgg tgaaatcttt 240  
gccttgcata ctccttggag tcaaaggcaa ttggattgac ctgactcgaa ataagtcccc 300  
acaagcccca aaatagatgg tttgcaagag tggatttttc tgcaagattc actag 355

<210> 3356  
<211> 515  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055e01a1  
<400> 3356

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gaactcacc acaccgaaca caagaaagga tcatgtccct ttgctttgac cttcaaacc 180  
tatgaacctc agaaccccca aaatttatcc accgaacaca ggacactcaa acctctgaac 240

cctcatctta tccaaacgaa gcacataaca aaatgaaatt caaaccaaca tcaataggat 300  
 tgtcatacta acatcaaaca aagcaaagat gaaaagaacc ttgctgttat agttttcccc 360  
 taacgaaccc ttgacggcaa cagttatcac ggactcaggt tggcgaggag aggcgaactg 420  
 acgagcgagg cgttgcaacc caggtcacgg tggcaaggcg cactgctgca gctgaggcgc 480  
 tgatcactga agcgcgcgcc gttgcgacgc tgcac 515

<210> 3357  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055e01d1

<400> 3357

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 ttgagaaagt agctagcaag cttattctat aagagcttat atataaacct acaacaaata 180  
 gtttcatcta acacttctct caaaagtgc ctattttttc attctgaggc aatttttcac 240  
 agaaagaaga gcacatttaa ttgtgaggag tcgatgcttc agatggacta cttgaggagt 300  
 cacctgagga tggattcaat ggtgaaccag ctgttagaga accatttcca ccctcactct 360  
 cagccaccac tggatcttg acagtggctg ctctttccat ctctttctcg agttcttcct 420  
 ctttacgcaa tgcagtaaac tgggtatcca aggatttcgc cgcagctagc caggcagaaa 480  
 caatcagcag 490

<210> 3358  
 <211> 532  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055e02a1

<400> 3358

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 tgacgtgtca tcgccagcat cgaacgatga acaacctagt cccacatcgg tgccttctcc 180

gaaatggtac ccggtttcac ggggtgtttc ttctggggtg tcggagaagt catcaagcat 240  
 gttgtttgcg gttaaagatg gagcttcgga agcatttcct tgggacaata gcatgctgtc 300  
 gtggcagaga actgcttttc atttccaacc agagaaaaac tggatgaacg atcctaacgg 360  
 tcctatgtac tacaagggat ggtatcactt cttctaccaa tacaaccoga acggtgcagt 420  
 ttggggtgac atagtttggg gacacgcagt gtcaaggac atgatccact ggcttcacct 480  
 tccactagca atggtggctg atcaatggtg tgacatgcaa ggtgtgtgga ca 532

<210> 3359  
 <211> 511  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055e03a1  
 <400> 3359

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 caaggcgaac tttttcagga ttatgggagt tttgggtgga ttaattgctg taggaaaatg 180  
 gtttgaccag atttgcaact ggaaaaatcc aatcacaaca gttctgatcc atatcctggt 240  
 cataatattg gtcattgtacc ctgagcttat cttaccaaca atcttccttt acctcttctt 300  
 gatcggagtt tgggtactaca gatggaggcc aaggcaccca cctcacatgg aactcgcct 360  
 ctcccatgca gattctgcgc atactgatga actggatgaa gagtttgaca cattcccaac 420  
 caccaggctc agacatcgtg aggatgcgat acgaccgact tagaagcatt gctgggagga 480  
 tacagactgt gggtggtgat ttggccactc a 511

<210> 3360  
 <211> 305  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055e04a1  
 <400> 3360

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tcattgtcaat cagcaggagc cagtgatgct gatgagaacg actgtattac ctctcatgat 180  
gatggtgcac atcccaaaga tcataaaggt gatcacgctc ttgccgttca tggcttggct 240  
gacgcttgta gattcggttg taatgatgca gaggttgatct cacatggcat aatgacgtag 300  
catgc 305

<210> 3361  
<211> 458  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055e05a1  
<400> 3361

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aagaagagaa aaacaaaatg ggcagggttt ggacttcgat gatagcattg ttgctttgcc 120  
tgatgacatc atcggttcgg ggcgaggacc cttacattta ctacacatgg aacgtgacct 180  
acggcaccat tgccccattg ggtgtcccc aacagggtat cctcatcaat ggtcagtttc 240  
ccggccccga aatcaactcc accagcaaca acaacgtggt catcaatgtc ttcaacaacc 300  
tcgatgagcc tctcttgatc acatggcatg gtgtccaaca gaggaagaac tcttggcaag 360  
atggcacatt ggggtgccag tgccctatcg cccaggcac caactacacc taccgctttc 420  
agggtaagga tcaaattgga acttacttct actaccg 458

<210> 3362  
<211> 514  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055e06a1  
<400> 3362

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aatcagtgc aatgctggag gtattgctga aatggctggt atgagtcaca gaattagaga 180  
gagaactgat gcccttgatg ctgccgaaa cagcactgcc gctattggga agggatttgc 240  
cattggttct gctgcccttg tatcactggc cctctttggt gcctttgtga gccgagctgc 300

tattacaact gttgatgtgt tgactccaaa ggttttcatt ggtttgattg tgggtgcaat 360  
gcttccttac tggttttctg ctatgactat gaagagtgtg ggaagtgctg ctctgaagat 420  
ggttgaagaa tacgcatgca attcaacacc attccagggg tgatggaagg aactgctaac 480  
ctgactatgc caatgtgtta gaactcactg atgc 514

<210> 3363  
<211> 520  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055e07a1

<400> 3363

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acaaggaaaa agagaaggga aaatctacaa ccaacctgaa ttgttcttca aatggaacag 180  
aaaactcaac cactccaact tgcacaaccc caaaggagaa aaagagatgg agtttttagaa 240  
gatcatcagc ctgagccact actgccacaa ccacaccacc aacaacttcc aaggaattga 300  
attttgtaga aacaaatgtg actgtttcac agacgggtgca aactgacact gatattcaga 360  
atgagcagag gaagcatgcc atggctgtgg ctgctgccac tgcagtagca gctgatgctg 420  
cagtggcagc tgctcatgct gtagctgctg tgatccgttt gacttctgct tccaatggaa 480  
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<210> 3364  
<211> 554  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220055e08a1

<400> 3364

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ccaccatggt ccctccccc atgctcgtct ccgactcctt cgccaaggac gccatcctcg 180

cctggttccg cggcgagttc gctgccgcca acgccatcat cgacgccctc tgcgcccacc 240  
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 tcaactggat ccccgctctg cagatgcaga agtaccactc catcgccgac gtcacgctcg 360  
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 acaaaacgac gccgtcggag agtgtcggaa atggtggtgg cggtgacgaa cacgaggagt 480  
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<210> 3365  
 <211> 593  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055e09a1  
 <400> 3365

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 ttatgtgcta tctgtggagt tggtttggtt ttcgcttctc aaaagttcta cttcaacaag 540  
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<210> 3366  
 <211> 531  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 <400> 3366

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aacataaaaa ctgaacggaa agtgcttttt catttgatac tgaaccagat taccagccca 180  
tcagtgttct tctaactttg tcaacaatct gagttcttgc ttggcttctg gtcaatggaa 240  
agtcacggct ttctccaac aaaaatctat acacttccca ttgacgttct tgtgttgaat 300  
gtctaacaac ttcagccgag aaaatgccta ctcccaacgc ttttaaagtc aacgtaacat 360  
catagaatac acgggggtctc ccttttccac tcagctccac aggattagca accagaagtt 420  
ctgtgtctgg accccggttc actatcgta cccgcaacgg atgaagcatc tcttctttaa 480  
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<210> 3367  
<211> 640  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055e10a1  
<400> 3367

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cgacgttccc tcgtctccgc cgcagcatgc cggttccgat gatcggatct ttcttaacgt 180  
gtcaccggaa gaaggatgat ggtcgaactt tcgtatttcg ggcccacca agttcttcgc 240  
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ggaagaatct cttcccatca agttaattcc ttttaatttc tcttttcac cgccttcttt 420  
gatttgatc tcgtaatcat cgaatgcttt tctttaaccc ttagattaga tcctttctat 480  
tttgagtcgg atataattat aatattcttt tcatttattt ttggtggtaa taagtaataa 540  
ctaatactaa ctagtaaagt agtaactggg gtgtgtgatc tttggtaatt cgatcttggg 600  
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<210> 3368  
<211> 524

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055e10d1  
 <400> 3368

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 aacataaaaa ctgaacggaa agtgcttttt catttgatac tgaaccagat taccagccca 180  
 tcagtgttct tetaactttg tcaacaatct gagttcttgc ttggcttctg gtcaatggaa 240  
 agtcacggct ttcttccaac aaaaatctat acacttccca ttgacgttct tgtgttgaat 300  
 gtctaacaac ttcagccgag aaaatgccta ctccaacgc ttttaaagtc aacgtaacat 360  
 catagaatac acgggggtct ccctttccac tcagctccac aggattagca accagaagtt 420  
 ctgtgtctgg accccggttc actatcgtca cccgcaacgg atgaagcatc tcttctttta 480  
 agcatgaaca caaggttttc tggctttcag gatctatgat cttt 524

<210> 3369  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055e11a1  
 <400> 3369

ccactttcta tattttgcaa ctcttgagc tgaaacactc acgcacttca tcaaaactct 60  
 cctcagttat ccctccaaca gaagataaaa catggttcta gttgcaagtc atggcgagga 120  
 ggaaaagggg gcagaaggca ttgctgctgt tgattttcga ggtcaccctg tggacaagac 180  
 aaaaactgga ggatggctag cagcagggt catcttaggt actgaactgg cagaaagaat 240  
 atgtgtaatg ggcataagca tgaacttagt gacctacttg gttggagttt tgaatctccc 300  
 ttcagctgat tctgccacca tagttaccaa tgtcatggga actctcaacc tgcttggcct 360  
 tcttggtggc ttcataagct atgccaact tggcagatac gtaactgttg ccatatctgc 420  
 aatcatagct gctttggggg tgtgtttgtt aactgtggct acaaccattc ctagcatgag 480  
 gcctcctgtg tgcagcagtg tcagataaca acaccatgaa tgc 523

<210> 3370  
<211> 447  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055e11d1

<400> 3370

gcaaaatata tagaaagtgt tgattgatta atttgacttg tttaagtgtt caatatagct 60  
gatgaagcca tcgctctctc tctctccac cctttcctta tacttctgct tatattctcc 120  
tatagccaat tctataaaga aaaagatggc tatttgaggc agcaattatt, gagacaagga 180  
tgcctatata tacatgattg gccaaatgta tttgtccaat tgatacaatc aattatcagt 240  
cagaagcggg gtctcttggc ttccctctat gtcattactc gaactagtat cagctggctt 300  
cagcaagcaa gcaaaacaaa gagaaattat catgcatatg gatgcacata taatgctaaa 360  
acctttgcat tcaaaaggag cattgctaga taaaaccat gaagtcaatg gacctcatag 420  
cataggagat agcaaatcag atataga 447

<210> 3371  
<211> 532  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055e12a1

<400> 3371

ctgtcatctt gtcattcacc gagaaagtcg tactgattcc tcttcatctt tcgttaaagc 60  
gagtactttt cgttcttgat ctgttggtta cgatgtcgta ttcaaggaga tctaggtatt 120  
ctccttctcc ttctccttct ccatacaagc gatacggtag gtctgtgtcc aggtctctct 180  
caatatcaag atccagaagc cgttcaagga gtttatcaag agatgcagaa aatccaggaa 240  
acaatttgta tgtgacagga ttgtctccta ggattaccaa gagagaactg gagaaacatt 300  
ttgctgctga aggaaaagtg atagatgtcc atctggtagt tgatccttgg acaagggaat 360  
cccgtgggtt tggcttttgat acaatggaga ctcttgagga ggctgaacga tgtgtaaagt 420  
atctgaatcg ctctgtactt gaagggcgtg tcatcacggt ggagaaggta taatacttac 480  
ctagctatgc cctattttgt gtgcctggga ctttattagc tatgattttt ta 532

<210> 3372  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055e12d1

<400> 3372

gacaactatg gattatTTTta tttatatacc aaagtaatca tacaaataaa atattttgaa 60  
 ctaagatggg gtacatctag atTTTgtgta ccaactcctt aaaaattgtc tctataccct 120  
 gcttctgcta ttggaagcaa tggaaatcct ctgatcctga agcatgttca agttgggagc 180  
 cagcaaccgt gtgtaccggg caaagtacaa gagctgtttc aggagaagag caaattctct 240  
 aggaaacttc aatccatattg attcactaac ccgaaccaca tcaagaaaga gtgcattcat 300  
 ctgcctctca tcaacaacta tattagcagc aacagcagtt gcatttTgtgg ctgttccagt 360  
 tgtagttgct acaactatTTt cagtgtccaa ttccttaatt gatgagaata ctttttccaa 420  
 atctcttgca aggccttagc atcaacatcc tggtttTtag caccatttTc aattaaggaa 480  
 gatgccattg agtcataatc 500

<210> 3373  
 <211> 508  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055f01a1

<400> 3373

aacaactctt tccttgaaaa acataaagat tctttgatgc atcgagcagc ttttgcagaa 60  
 atcttgca ca ttttggaattc aaacagaaag tctgaggctg ttaagtTcgt tgaagattca 120  
 acaaataaca tagtgcccag aaatggagca cttggaccaa tcagggaatg gaatcttaca 180  
 gactgtattg cagttcacaa gcttcttgaa acagttcttg ctgatcagga tgctggattg 240  
 agatggaagg tgcgttTgtgc agagtatttc ccatattcta catactttga gggatgccac 300  
 agctctgcct ctcccaactc ggccttcagt cagttacgta agaactctga aaatgagagt 360  
 ctaaaccatt cagtggatgg tcaaaatgtg ggctccatca catcaaacgg gaaactagag 420  
 gcatttaaag atctcactat ctgatcaaat caaatacatc catcaggcta aagacacgtg 480  
 cgtgttacc aatttggatg cttataaa 508

<210> 3374  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220055f01d1  
  
 <400> 3374

acaaggacaa acagttacct gaatttatta tttctcgcag catgaaagcc acgatagaca 60  
 gtcaagtcaa gcattatgat acatcagacc ccaaaatacc aacaacacta ctgagctgag 120  
 cagttattat atcgtacttt cacatgaaag tgtcataaag gcagataaaa gcatatacat 180  
 tcaacacaca cgaccataag gctcaagcac aaggcaatag tatgacttaa acggtgacac 240  
 atttcagcaa ttattcttaa aacctgcag attttctgaa tttgttcaaa atacaagagc 300  
 cttgttactg tagaaccaca cattcttgtg aaccagccac caccaccaca gtaggggtgtt 360  
 cgcttgtgct gactgcatca acttcttttt tgacactttg aacattgaca tcctccaatt 420  
 caccacagcc aatggcttca aaaacaagat cattgacttc ttgaaacctc tcttga 476

<210> 3375  
 <211> 556  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220055f02a1  
  
 <400> 3375

cacccaattg tctccccatt aaacaataac atgaataata ttaggaatgg atacagagaa 60  
 gaaaaatcat tctgctatct ccaccccaaa cagggtacttg ttgggggtgtg tcccctgtgc 120  
 ttgaatgaga ggctcctcat actgtttgca aaacaaggtc gccaccacaa ccgttcttct 180  
 tttcatcca tatcttcaca caggcttcaa agtaattcca gacacagaaa accaccctct 240  
 tttctattc acaagatctt tgcttttggc tctctcttca ctgcccaga atcccaccac 300  
 aactatgact atgatgatgt ctctcccact ccagaagagt cattcatctc aatcaagttt 360  
 gaagagaatg ggggtggcatc gtgggaaaag agcacagtgt caaagaaggt gtcgtcgtgg 420  
 aaccatcaaa acaaggagaa caagagagtg atagagcatg ggaagtcacg tgacacgttt 480  
 aggtggcgaa agaggatagg gcacatgctc cagctcattc ggtggaagaa gagcgggggtg 540

tgtgccacgt gggcac

556

<210> 3376

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220055f03a1

<400> 3376

gatcaacata tttttgttga catatcactt tgacatacat cttaatatcc ttcaaatttt 60  
tcagaaaacc aaaaactata aatcccttat gcagtaccaa gcaccaaata gctttcaatt 120  
aattgacttc tgagttatca caacttggct caattctata ttagaagggtg aagtgtagaa 180  
tagagctcca ttaacttaca accacatcgc cctcctcacc cattgcaact gcagctcgca 240  
cagctaccct cctaattgtca tggagaaaaa gtctatgacc atttgaaga ggtggataat 300  
agtcattctc tccatatttc aggtagtctt gcctcgtcca tctacccca gctaacatat 360  
catccaatat gtccaatgga tcttcactct tgggattgtc agatgtcagc atggtcactt 420  
cacttttatc tgggtctatc ttggtcacatc cgggcctctt tcccctggtc gccttaccac 480  
a 481

<210> 3377

<211> 521

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220055f04a1

<400> 3377

cacgatgggt gaaatttgaa gcaaagcacg tgtttgtgtg tgaccttctc tctctctaaa 60  
ctccgatggc tttctctgca atcaactact tgccctctcc tcaatttctc cgccttctc 120  
aatcttcacc ctctcttcga ttttcaccgc caattctcaa acgccccaaa cccctctcca 180  
ttcgatcagt ttcaatcccc gctgcaccag catctgggtc tctggcccct gcagtttcac 240  
ttacggataa tgcgctgaag cacttgaata agatgaggtc tgaacgaaat caagatttat 300  
gtttaagaat aggtgtcaaa cagggagggt gctctgggtat gtcatacaca atggattttg 360

aagacagggc taataaaagg ccagatgatt caattattga gtatgaaggt tntgaaattg 420  
 tttgtgatcc taagagccta ctcttcatat ttggcatgca attagattac agtgatgctc 480  
 tgattggngg aagcttctct ttcaagaatc ctaacgcgac a 521

<210> 3378  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055f05a1  
 <400> 3378

cagaggggcc agaatctctc gtgtcatcaa tcaaaccttt tgcagttact acggctaatac 60  
 aagaaaccta ctcaagttca tctagtttgc ggatagtttc aaaaacaaat ccaccttcag 120  
 cagaagaata gttagaccaa caggattgat tcttgctcat attttcagaa gcttcctgca 180  
 ttcttatcga atgaggtgct cgatagtctg aagaacgggt ggatcacatt cacttgatag 240  
 actaattttt tattgggacc atgttttggg gggcatgaaa cttctcatta attgggacca 300  
 agtcatggca accacagagc aaccgggtca tggtacaatg cttctatgaa aaggagctat 360  
 gatgcccatc accgacacgc acatattggg cttgggtgct aatttgaggc aaaataatga 420  
 aaggactttg atacgggcat gtgatcagat ctaaagagat aacttttgtc tatttttggg 480  
 tgtttttttt ttacaagtcc acgtcattgt tttccacgat ctca 524

<210> 3379  
 <211> 584  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055f06a1  
 <400> 3379

aagaaaagtc aaagacaatg tcagggatca ttcacaagat tgaggagacc cttcatgtgg 60  
 gaggccacaa gaaggaggag gagcacaagg gtgagcagca ccatgggtgga gaatacaaaag 120  
 gggagcatca tggatgaacac agtactgaat acaaaggaga gcatcatgtt ggtgagcaca 180  
 agccggagca ccatggagga gaagagcaca aagaggggtt cctagacaag atcaaggaca 240  
 agatccacgg cgaggagggt ggcgccaccg ccgagggcga gaagaagaag atgaagaagg 300

agaagaagaa gcatgaacat ggccatgaca gcagcagcag cagtgaacag tgattagatt 360  
atcttcact gctgcatcac ctatatatct tataagggtgt atgggacat agtagtgagg 420  
gctgtgtctt tctctttttt tctacttgt catttatatt tatgagcgag agaaatagtg 480  
cgtgtatctt gttgctaatt cgagtgtat tagtctgcgg tttcgttggt cgtaaccct 540  
ttgcttggtt atgctggaat gatttatcct taaagaataa atga 584

<210> 3380  
<211> 61  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055f07a1

<400> 3380

tctgaattcg gctcaaggag ctaataactt cattgctttt tcaccacaca tcgcatgatg 60  
c 61

<210> 3381  
<211> 314  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055f08a1

<400> 3381

gattgctaaa gtgaatgtaa gggatcacaca tgaataccta tagcaatcag cagtctggct 60  
cggcatatca aggataactg gagggaatca agaccagtca ttactacac actattgctt 120  
ctcttgcttg tctggcttat ctggctcctt cttttcaggt tcttctctt cctctttctt 180  
ttcttctcc tcttcatcct cttctggagg atctgctgtc aactgctagc tgctatgggtg 240  
tcttcttagg actatattga gggaattata tccggctctt gtccagggtt attgcctttc 300  
ccacttcatg ggga 314

<210> 3382  
<211> 104  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055f09a1

<400> 3382

gaagttgggt ttttagtttc tgtaaaatat tttctatttg attcacactt ttcataatga 60  
caagtgtgaa tcaaatagaa aataaaatat tcataatttt taat 104

<210> 3383

<211> 491

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055f09d1

<400> 3383

agttattccg atattcggac gcatcaactt gttatgaaat cacattgata gcctctactc 60  
gtgtcctagc tcgtctaaga gctagatttg cctcaattgt ttgtctcttg cttccgcct 120  
tattcaaatt agcttctgct atttcaagag tttgctgtgc ttcttgtgga tcaatgtcac 180  
tacccttttc cgcattcatt actaaaacag tgatctcatt attgtttatt ctagcaaaac 240  
cgcccatcag agccatcggt aaccattggg ctttaagaag acgtattctc aaaataccta 300  
tatctacggc tgtggcaata ggcgcatgat ttggtaatac tccaatttgt ccgctattag 360  
tagataaaat gatttccttc acttccgaat cccaaacaat tcgattgggg gtcagtacac 420  
aaagatttaa agtcatttct tcaaattgct ctccatttct aagttcgtag ctttcgcagt 480  
agcttcatcg a 491

<210> 3384

<211> 571

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055f10a1

<400> 3384

gtctccaatg gcaagagcta ctgcaactac aacaacacca ttaagcaatc tcacgcgccc 60  
ttcgcacacc aagctttgcc acttctctgc aaacaacgtt cccttttcta tccaaccctt 120  
tcattccaga ttctaccaca accaccgttt aaagcccata atcaccaatt gccatggcaa 180  
gctgaatagc tcaggtgggg gagaggcata tgcgatggat gaagcgggtt ttgacgagta 240  
cgatggagtt gaagaggaaa gcgatgacga ggatgatgca gagagtagcg tggatttgtt 300

gatcagattc ttgcagagca tgtttaagaa ggtgtctaag cgggcaaaga aagcatctcg 360  
ctctgttttg cccacagtga tategcccca gctcgtttct tttgccgttg atgggactct 420  
gctacttgct tcactttctg ttgtcaaagc acttcttgag gtcattctgca ctcttgaggg 480  
tactgtatct gctgcaattc tggctctgcg tgtgatttgg gcagcagttt cttacttcca 540  
gtcaagtggg aatagcttca tcaagggggg .a 571

<210> 3385  
<211> 172  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220055f10d1

<400> 3385

gggttaatgg ggaaagttat gagtagatat aactggcgcg gcaacagacc caaaaacaaa 60  
cgaaaaaaga gcataagaac ccaaagaca ggtaataata cagtggaaat aaaacaggac 120  
aaaaaacagg gagaaaccaa gcaatcgag caggagtact aaaaccaggc cc 172

<210> 3386  
<211> 570  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220055f11a1

<400> 3386

gcttaaggtc tacacaagtt ctctgcttct tctcccccta ttgaccttg gtcattcaca 60  
gcgaaaaccc acttctggat cttctgggtg aaaggccatt agaagcttta gaaattttct 120  
aattgagttg gtgtatagtg ttgaaggggg tgaaatctgg agcccagttt gttagttggt 180  
actcacttca tctgtaagct cataggttga accctctttt tttggagact tacctgggaa 240  
aagatgatga tgtttgaaga tatgggggtt tgtggcgatt tggatatggt atgtgtttct 300  
cttggagagg gggatattgc tgtgagacaa actgaaccgg atcctgtagt tgaggatgac 360  
tacagtgatg aagaaattga tgtggatgaa cttgagaaga ggatgtggag ggacataatg 420  
cgtcacaagc gattgaaaga acaaaccaag tccaaggaag ggactgatgc aacatagcan 480  
aggcaatccc aagagcaggc aaggaggaaa aagatgtcat gagctcaaga tggaatactg 540

aagtacatgc tgaaaatgat gaagtttgca

570

<210> 3387  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220055f11d1  
<400> 3387

gtaaaaagca agtaacatta agttggattg ggatacacia gataattcac attatctgaa 60  
gtacattgca ataacatata cttcaccaaa caciaatcta aaaactctca aaagtccaca 120  
agtcacccctt ttctttcatg ctcaattgcc ggggacgaag ttggtggcgt agggccaggc 180  
attgttggtg actgggtccg caaggtgatc agcaaggttc tccaatggac cttaccggt 240  
gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cgttcttgag 300  
ttccttcacc ttaagctcag caaaagcctc tgggtcatca gcaaggccca atgggtcaaa 360  
gctgccacca gggtagattg ggtcagtgac ctcaccgagg ggcccac 407

<210> 3388  
<211> 528  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220055f12a1  
<400> 3388

caaaacattc aacaatgtcg ttttttcaa ggggacgtcg cgacgacgac gacacggtg 60  
acgactacga cgagtacgac cccaccccat acggcggcgg ctacgacatt cacctcacct 120  
acggccgccc cgtctctcct tcagaagaaa cctgctaccc actcggagcc ttttccgatg 180  
aaaacttcga ttacgatcgc cccagtaga cctcttacgc tgaaccctct gcttatggcg 240  
atgaagccct ggccactgag tatagcagtt actctcgccc taagcccagg cccgctcctg 300  
caggcttcaa tcccgcgccc ggatccgggt atggtaggaa gcaggagtcg gaatacggat 360  
ccgggtatgg aaggaaggaa gaaggagaat acgggtcagg atatggtgga agaaaggagg 420  
aatcagaata cggatccggg tatgggagga aggaagaagg tgaatatggg tccgggtatg 480  
gtgggagata ggaggattct tgatatggat ccgggtatgg tagaaaac 528

<210> 3389  
 <211> 312  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220055f12d1  
  
 <400> 3389

agcaagcaaa aattggaaaa ccccatataa accccaaagg gacataattg gggggaagtc 60  
 caaacctttt acataaagaa tcaaaaattc tttttccttt gaaagaaacc cggaatacaa 120  
 cagagaattt tgggggtcca aacttaattc cttttaaccc aagaattggc ataaaaaagt 180  
 tgtcccctcc ttccttttac ggttggggaa caagtaaaag ggggaaactt aagggttttt 240  
 ttccaaattg gctggggaag accccttacc tttttgaagg ggggtaccct tagagctaaa 300  
 aaattcgggg gt 312

<210> 3390  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220055g01a1  
  
 <400> 3390

caacaactaa tcagtgggga ttgtgtactg ttatattggg cttctacatc tatttgggac 60  
 ttcatgagct tattgtcatc ggccttttat gccatatttc tattttacgt ctttgggctg 120  
 catcagtttg ttggacgggt atctttggac caacaatcct catgcttttg gaatatggac 180  
 ttgtaatcgc attattaact tattgcctta catttctctt ttttgaccat accatggcgc 240  
 ataatgtggc tctgttgatc cacttgatct ctggattgat actgatggtc atctcatatc 300  
 attatgggac tcatgccatc aacaatgaat gccaatctt taattaagaa tgtgctcaga 360  
 atatctcttg taatgtgttt cgctgatggc cttgctttac tagctctttt acggcaagga 420  
 atgaaagata aaacatgtga tggggtgatc gattggaatg ctactggggc tttcatctgg 480  
 aatcttgct 489

<210> 3391  
 <211> 489

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220055g01d1  
 <400> 3391

agaaaagagc cacaataaat tgaattaaca taaaccaacc cagatgtgtg cctatgatac 60  
 attacagggtt aggttcaacc actagactta taaatatcat gatgaggggtg taacagatct 120  
 ggtgttccgt ccaaagccaa gacctagcc caaggagca ttgtcatttc tggttttgcc 180  
 atggttatta ttatggctac aatgcgtaga atgaacatga ccatgatttg ttttggagtg 240  
 ggtactgttg gaattggaat tcacattaat aacatgatgg ccatttccat tgccccttgc 300  
 atattcggaa tggttatgcg agtctccatt tgctaagttc gagcttcttg ccatgtgcat 360  
 cattcctata cctcctctg agctacctaa ttcttcaatg cactcaatat cttcgttgta 420  
 accattgatc aagaaatcag aacagttctt cttgatacca tgatcatatg ggtttctgaa 480  
 tctaccacc 489

<210> 3392  
 <211> 537  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220055g02a1  
 <400> 3392

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 gtgtacgtgc tggagtcgcc gaacttgctt ccgcacaaga acttgctcgt cttgctgctc 120  
 aatacaagat tatatcaaata gaacaggcaa agcgtctgaa cgctgtgcaa tcaagctttg 180  
 acaatgcaga cacaatagcc aaagcaatag gcaatgccag caagggtggtt gtcaccattg 240  
 gtcccacaga gaacgggtcca accacagagg tctccgcata agatgccttg caagtggttc 300  
 aggcagcaca gctggcagga gtaggccatg tggctgtcat ttacgacgag agcagcgccg 360  
 gggcctcaac ctacaatgtg ctggatggcc tctcatcttt cttcagcaac ctcttctcca 420  
 ggtctcaacc gttgactata caagagttct tgcagaaagt gattganacg gatgtcaaat 480  
 acaccttcat caagacaagn ttgaccgatg atttctcacc cgagagtttc tacaatg 537

<210> 3393  
<211> 562  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220055g03a1

<400> 3393

atcgaaccag cagaatcagt ccattaaggc tcttaaggag catgttgatg atgcccctac 60  
cattgcggat ccatggtttc agagttacaa ctctaataac ttagaggtgg aaagctctga 120  
aatgggttat tctgtggagg ctcttctttt gctgcagaag tcaatgctgg aaaagcaatg 180  
gaacctttcc ttgaaagag aagtgcctac tgaaaattcg agtaaggga aaaaatgtag 240  
gaaagtggcg gtgacttggt ctggggtgtc tgcaaggcaa agaagaatga ataccaagag 300  
gaagaccgct attaaaactt gtggtgctat gcagctgaag tccaaaatca gtccagagct 360  
gcttcaacac cgtttgaagg gctacgtaaa aggtctagtg agtgaggaat tgctctctca 420  
tgcagaagtt gtaaacctat cggagaaaat aaaaagttgg gctttcctta gaggaacata 480  
aattcagact gaaagaaaaa ctatgatgtg aaccctctga tgatcaaata caacttcttt 540  
gaagatttct cgaactgaac ta 562

<210> 3394  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220055g04a1

<400> 3394

gaaagaaatc aagcgccagg cgctcatgga cctcgtggac ttcattccat ccggctccgg 60  
caagataagc gagaactgcc aagaagagat gatcagaatg atctccgtca acatttttctg 120  
gtgcctcccg ccggcgctgc acgaaaacac aggccaagaa cccaccgatc ccgaagagga 180  
ggaaccttcc ttggaccctt cttggcccca ccttcagctc gtctacgagc ttctcctcag 240  
atacgtgggt tctccgaca ccgatacgaa aatcgcgaaa cggtacatcg accactcctt 300  
tgtttctcaag ttgctcgatt tgtttgactc tgaggacca cgggagaggg agtatttgaa 360  
aaccatactg catcgatat acgggaaatt catggtgcat aggcccttta ttaggaaagc 420

tattaacaac attntttacc gctttatata tgagactgag aggcactctg gtattgggga 480  
gcttctggag attctgg 497

<210> 3395  
<211> 512  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220055g05a1  
  
<400> 3395

gccggcgacg ccgtaatggc gcggtggttg cagtcgctg gcctgcagca tctagcctct 60  
cccctcgctt ccaccgcat cgatcatcgc ctctcccta accttctcat gcagggttat 120  
ggagcacagt ctactgagga gaagcagagg cttttaaaagt taatgagaaa cctcaatttt 180  
aatggggaat ctggttcaga gccatataca ccaccactc aatctttagg tgtggctggg 240  
tcggatgggt tttattctcc tgagttcagg ggggagtttg gagctgggct tttggatctt 300  
catgctatgg atgatacaga gcttttgtct gagcatgtag tttcagaacc ttttgagcca 360  
tcacccttca tgcttgaga tactagagta tctgaagacg atttcgatcc aattaacaag 420  
cagctggaaa gcggtgaagc agatactgat gcatcaattt cttacctat gaatagcaca 480  
agggaaaata tggtgctaag ataaagttgt gg 512

<210> 3396  
<211> 583  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220055g06a1  
  
<400> 3396

ctcttctttt gttctttcca tcatctccca caactttctg gttgccctgg aatttccaac 60  
actaattcac ataacccgaa gttgaatggt aaggatctga cacttttttg agatagaatg 120  
agatgcatgt cctaagagta tttgccagac tttgtcgaa ttccattgta aattttcaag 180  
tgaaatctgt tctggaaatt tcctttgttc attgagattt ttagagggtgc ataagatttt 240  
tcaagttttg aagatatatt tctcttgaga aaaaaagacg gattttgaaa ctctgaactt 300  
tgtgcaagtc gtacgttaca gggacgatcg ctacttgcc atcgtctcag atagaagctc 360

tgaagtgtca ttattagttg agttttcggc atagatttac attttccata gctctggaac 420  
 tgaaatctgg acaattttcc taaacggttg aaccagagtt tcagcaggag cagatttagg 480  
 aaatagaaaa attggctcct tttcccctta gtttcagaag gattgattgc tcgacgactg 540  
 ttaattttgt aaggcacggg ttcaagagat gggagaagag tca 583

<210> 3397  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055g08a1  
 <400> 3397

atcttatgat gcattaagca aggatctgcg cccatctttg gactggtgtc cagaagaagg 60  
 ttggactgtg cctgttccta tgcctatggg tggatgaatgc aggcaacctt gtgctcgat 120  
 aatgaatcca gcaaattcag atggaacagt aaagggtggc cagcatatgg caaggacagt 180  
 ttcttctcct ttgtctttaa atttgaaaga ctgtccagaa agatccactg cgaggagaaa 240  
 gcaatgcaac aatgctagaa atgatatgga gattgatgag tctggtagta aagttgaaag 300  
 tgtttgtttc tcaagtaacc gttcaaattc gcacataatg gatgcatcaa ttgagaaatt 360  
 cggaagaggc taccatcaat ggtggatata atgagtatcc cacaaagaag aggagcgcca 420  
 gaagcctttg tctgattcca tgtcttccaa tacggtagaa gctgcactca tagacttggg 480  
 ggaac 485

<210> 3398  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220055g08d1  
 <400> 3398

aaacaatata tttcattcaa tatataattt actggaaaga gattggtgta acatccataa 60  
 gcagttttta cagaattgaa atagtgtaca aaaacagttt atttcaccac ctaagcaggg 120  
 cggcagggca ggggggttga gaaaaaccaa aatgctaaca caagcacatt gttctaacca 180

cccattttca gacatagcaa cctaagccat tacggtggat attcaacagt caacactacg 240  
 cactagaaat aggtcaggca acattaaata ttgtgctacc taatgcctc tttcaaatnc 300  
 aatgcgagtc ctacctgaac ctncctcggt accatcccgc atagatgatc cagcacttgc 360  
 cctcatagtc ctttcaccac ccactttctc catggccttc ttacccttct cacctcagtc 420  
 aagaactgat ccaaaccaaa cggatcag 448

<210> 3399  
 <211> 575  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220055g09a1  
 <400> 3399

gtcgtcgtgg tcgtgtcgca gcaaaaccaa gccaccact aacttgtttg gtccaagaca 60  
 tggctctgat cctgcatgct accaaaacaa acaagaatgc cttcaagact ctgattgcgg 120  
 cagagtacag tgggtgtccaa gtggaattgg cccctaattt cgagatgggt gtctctaaca 180  
 aaactcctga atttctcaag atgaatccta ttggaaaggt tcctgttttg gaaacgcccc 240  
 atgggtccagt ctttgagagc aatgcaatcg ctcgttacgt tgctcgacta aagggtgaca 300  
 acgctttggt ctcatcttct gccattgata atgccacat tgaccagtgg attgattttt 360  
 catccttga gatcgatgct aatctcatga aattgctcct accaagactt ggatttgccc 420  
 cataccttcc ttcagttgag gaggggtgcaa attctgcgtt gaagagagca tttgaggcct 480  
 tgaacactca tcttgccctnc aatacttacc tttgttggcc attcctgtta cccttgctga 540  
 catcataaca acatgcaact tgtatttagg attca 575

<210> 3400  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220055g09d1  
 <400> 3400

gccataatta catcaaattc tatacccctg ctttattgac atcaagtaca agaagtagca 60  
 gcttcactct aataatttcc ccaccttatt acctcaaata tacttacaat ataagtaaaa 120

aaaaacctgt tggtaatggt attaatatc atatccataa aaactttcaa catgacacag 180  
 aaaaaaaaaat ggcagcttat ccttaaactc aactatatat aaaaaaaaaag gggtacatga 240  
 attcaagtgc cgatggaatc agcactaacc caagtccaat aatgcttctt aacagaaaca 300  
 gcttcatccg caacaatttt gtcttcaaaa acccctccat actcatccac ctctaggtg 360  
 caaaaatccc ctctgggcaa acactccacg gtggcactga gcgtgtgcaa aacgtagcaa 420  
 ccgggcaaac ccgggtaaga acccgaa 447

<210> 3401  
 <211> 533  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220055g10a1

<400> 3401

gtggaagcac acaacatggt tggctatgag accattcctg aagagtgcgt tgaagcaaca 60  
 aaggaatata tccatggcga acaatataga tcagactaca aaacagttta ccaacaagct 120  
 tacttttatg ccagagacct cgaagtccat tccaaggaca catttgtgtt cagtatagat 180  
 ggcaccgtac tctctaatat tccatactac aaaaaacatg gatatggggg ggagaaattt 240  
 aactcgacct tgtatgatga atgggttaac aagggaatg caccggcact gcccgagact 300  
 cttaagaatt acaacacgct ggtgtctctt ggcttcaaga ttatattgtt gtcaggaaga 360  
 aactggaca aacaggccgt aacagaagca aacttaaaga aagctggcta ccacacatgg 420  
 gaagaattaa ttctcaagga tccacacgat ccttccactg caaatgcaga tgcatacaaa 480  
 acagcagcga gagagagact gatcatgcaa ggatacaaca tcggtgggat cat 533

<210> 3402  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220055g10d1

<400> 3402

aagttgaaag gcgttgattt atagtataa ctaaagatta atcgtaaac aattaccaat 60

aataaaacaa aaacaagtga aagaatttac tctgccatca actcagttat ctgatttaac 120  
aacacatttt ttcatcatat aaaacgagaa cgccgtatth taattttcttt caccaagcta 180  
ccctgtaggc tgtgcagcat ttagaagcat ttctgtgta caattgaagg accagcctca 240  
tcgtactcag cctttgcaat ccacatctgt tggaaagtgc tgagagaagc caagatagag 300  
ccaccaatcc agacactgta ctttctctca ggtggagcaa ccaccttaat cttcatgctg 360  
cttggggcca aagctgagat ttcttgctc attctgtcag caatacctgg gaacatggta 420  
gaaccaccac tgagaacgat gtttccatac aagtccttcc taatatcgac atcacatttc 480  
atgattggaa tgtangtggg ttcatgaatg 510

<210> 3403  
<211> 581  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055g11a1

<400> 3403

agttttgttg cagagcttag cccaattctt gatgcgggta aaggtgatgc cctgagctcc 60  
actggtgatt taaacttacc atctcaccg acagcagctg aggaaccatt acgacaagca 120  
gatgtgcatc accatcatca tcaaagaatt tctgcggagg attcttcaag aagttctaaa 180  
gttgaggtgg gtacaaagaa cgggtgttca ggtaatcaat gggattcagg ctgagaaaat 240  
tcaccattg ttccatcccc tggaacattg ggcttggtta tagacaccac ttggagactt 300  
ggcttagaga atacacactt gggatggagt ggaatagatc aaggaaatgc aaatgtgggt 360  
tgaggagtag gacagactgc agtgcaggaa aacagaagtt caagttcgta cacttctaca 420  
gtaactccag gccttgggga tagtcaaaca agatatggca gtgatcgatt ttctgtgtcc 480  
agagatcggc gttttcaagg tcatggtagg gaatcagggt tagtagaagc agaattctta 540  
taacaggcaa ccgtcatatg gtgttggaat tgaggatcat a 581

<210> 3404  
<211> 452  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055g11d1

<400> 3404

cattgattgc cgagattcaa ccatgttata ttgagacaat caatcaagta cacaactcac 60  
agcaaaaagg tttataagct gtaaaggtag atgtaacat aaacaaaaat agtctccaag 120  
actataaaaa cattacattt tagacaaatt agtcttcttc cacttcatcc tccgtcaaca 180  
cctactacaa ctgctgggtg tgctgctgcc taacatgtat catattcact acaaacatct 240  
tagtaggagt agcctttgac gaacaactcc ttcttggctt cctcagattc accctcaccg 300  
gtgtacttcc caagctgggc gagcgagttg gacttggcac ggaaaagaag tgcattctgt 360  
gccgccttca cattctctgg ggggcctccc catgtcttca ggcagtgttt tggagggctc 420  
tggcatacga gaacgacacg tgccacgggt tt 452

<210> 3405

<211> 538

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220055g12a1

<400> 3405

ccaaaagaac aacatggaca ttgatctttc tctcagttg cccaagaaag tttacgggtgc 60  
caatgggtggc tctactacg catgggtccc ctccgacctt cccatgctcc accaaggcaa 120  
cattgggtgcc gctaagcttg ctctcaacaa aaacgccttt gctcttcttc gttactctga 180  
ctcttccaaa gtcgcttatg ttcttcaagg tagtggagtg gctggaatag tggtgcctga 240  
atcagaagag aaggttggtg caataaagaa gggatgatgcc ttggcactcc cctttgggtg 300  
tgtgacctgg tggataaca aggaagaaac tgagttgggt gttctgttcc ttggggacac 360  
ttccaaggct cacaaggctg gtgaattcac tgactttttt ctgactgggt ccaatggaat 420  
cttactggc ttttccaccg agtttgtggg cagggttgg gacttggaag agagtcatgt 480  
caagaccctt tgtggaaaac aaccagccca agggattgtg cagctggaag gaaacatc 538

<210> 3406

<211> 506

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220055g12d1

<400> 3406

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aaaggtaaca aagataaaat acgagcttgt tttatagcaa ttgttattaa tcgttggtgt 120  
tttaaggta atctatttac gcgctctggat aatatttttc cttgttcact aataaatcga 180  
ctaattaaac ccatgttttt ataatacaatt cggcccccg attggatcgg gggcaaacgc 240  
ctacgaaaag atcgcttgga tttcataaag agtcgcttag atttttccat ggtttattta 300  
tccctattcc aaaatcacat ttattacaag aaatactata aaggatttgt ttttttattc 360  
tgactntttt aatatantgt tgtatttttt taatatatgt tgntatatac tgatatttgt 420  
atatattcaa ctgtaaataga tagaatacag atagatctat ctatatagat tagaaaaata 480  
gatcatttta catgttaagt tcttttg 506

<210> 3407

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220055h01a1

<400> 3407

ggtcattcca agcatttttc tccccgaaga ctggctcttc acttttttac aaggcattaa 60  
tagacatcca gactccattt tcaaggagag gactgttgcc gagttagggt gcggaaatgg 120  
atggatttcc attgccatgg ccgagaagtg gttaccatac aaggctctat gccttgatat 180  
caatectaga gcgggtcaagg tttcctggat aaacttatac ttgaatgctt tagatgaaaa 240  
tggccagcta atctatgacg aggagaataa aactttgctg gatagggtag agttccatga 300  
atctgatctt ctatcctatt gcagggaaaa agacattcaa cttgaaagaa ttgttgatg 360  
catacctcag attcttaatc caaatccaga tgcaatgtct aagatgataa cagaaaatgc 420  
aagcgaggaa ttctgcatt cattgagtaa ttattgtgca cttcaggggt ttgtggagga 480  
ccaatttggc 490

<210> 3408

<211> 441

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220055h01d1

<400> 3408

aaatagtctt gcatgtcatc tttaaagtaa ttattacagg aggtgagatt ttcaattata 60  
taacaatcta ggatcatata acaaagtaaa aaatacacac ttttgggtct tggaaaagga 120  
acacagatat tactaagcca attcgtcttc cattctttcc ttcttctctt ctcttggtcc 180  
aacaactata agaaactaaa tcaagctagt aaaaatctcc catgttcac agcaaaaacc 240  
cctaatttaa cagaacatct tatttgccaa atatgtcact gcttctactt gcaagttgca 300  
acactctact ctagaagaac atgggcttca ttttctctc actctatggt taagaccttc 360  
cctacgagtt gaggaagatg aggaagacac cgtagatgaa aaaccagaat ggtatttcag 420  
ccatatacctt gtgaaatgcc t 441

<210> 3409

<211> 581

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220055h02a1

<400> 3409

cgcgccagcag cagcagctcg ccgccacctc cgactcctac ctccagctcc ggagccgctcg 60  
cctccagaag cctccgattt tgggtccactc tccgaagcgc cctaagcacc cgaaccctaa 120  
atccccaatc cccgaacctc ccaggctcgg actcgcttcg gagcgcgacg ctaccctcaa 180  
ccacaacaag gacaatactt tgcattgagaa tgccgagcct caggaagcgt cggttcgggga 240  
aaatgttttg gatatttgaag gtagagagag aagcactagg gaatccacac cttgcagttt 300  
gataagggac tcggatactg tcaggactcc ggggttcaact accaggccta cttgttcagc 360  
tgaagcttat cgaagaacag agcatgcagc tagaaggcaa atcccaacct cccgtgaaat 420  
ggatgaattc tttgctgaaa ttgaagaggc tcagcaaaaa aaattcattg agaagtacaa 480  
ctntgatcct gtgaatgaga agccgctctc agggcgctat gaatggngaa aagtgaacc 540  
ctagaagggt aatgagtggg ccatcaagac atccttgaag t 581

<210> 3410

<211> 556  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220055h03a1

<400> 3410

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tcggttcggg tcccagaaac cgtatgagaa tgttgaatct ttgcatgctt caccaactcc 120  
tctcaaatta aaaccaata acccagatag atagatagat gtatgtgatc ttgttgtttt 180  
ttctttttca aatgctaata cgattgtgag tcccttcatt tgattgttca acaaagtcct 240  
ccactaccct acccacacga cgtcgtctcg ttcttaattg gtttaattttc tttttccggt 300  
ctgattcttc tgggggtcca ctgagtgagt gtgttagttt tgtttttggt ttgaaaaaat 360  
ggcgagagag acgatagaca aagtgagaga ccatggggaa ctggaggagg agctagaatt 420  
gttgctggat gagatccctc acgccacatc acacaatctt cttcgccacc atcatcatca 480  
tcatcatcat catcatggtg atgacgacga tgccgttttc gtaacgaaac agacacacca 540  
tggtcacgct catgct 556

<210> 3411  
<211> 553  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220055h04a1

<400> 3411

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aaactttctc atcgccctta taatcttctc tccgttcagt tgcagatgca gatgcaaccc 120  
tcttctctc cctcactcg aaagatgagc acggatgcgc agagtattgc ttcccagctt 180  
aatagttctg gattgttgag gactcagggc cttattgcag ggaaatggag tgatgcttat 240  
gatggtaaaa ccataaaggt ttataatcca gcaactgggt aatctgttgt agatgttgca 300  
tgcatgggtg gaagagagac aaacgatgca atttctgcag cctatgatgc atatggatct 360  
tggagccaaa cactgctgc tgaacgaagc aaattactga ggaaatggta tgatttgcta 420  
atggtacatt aaagatgaac ttgcacagct tataaccttg gagcaggtga aacctcttaa 480

agagtctgtg ggtgagatag tctatggtgc tggctttatc gagtntgcag ctgaagaggc 540  
aatacgtata tat 553

<210> 3412  
<211> 505  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055h05a1

<400> 3412

tccaccttca acaaaccctg tttctcttct taaggaagcg atccatgtca tcagctgtgg 60  
ttacgaagac aagacagagt ggggaaaaga gattggatgg atctatggct ctgtgacaga 120  
agatatcttg actgggttca agatgcatgc tcgtgggttg atttccatct attgcatgcc 180  
acctcgccca gcatttaagg gttctgcccc tatcaatctt tctgatcgtc tcaatcaggt 240  
gcttcgggtg gccttaggtt caattgagat ctttcttagc aggcattgtc ctttgtggta 300  
tggtacaat gggaagtga agcctctgat gaggcttgct tatatcaaca ccattgtcta 360  
cccatttacc tcaatcccat tgattgctta ctgtacgctt tctgcattct ggccctctcac 420  
aaataaattt attatttctc gggataagca actttgccag catgtggatc attcttcttt 480  
cggtccatt ttacacttt aattc 505

<210> 3413  
<211> 567  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220055h06a1

<400> 3413

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atccactccc ccaatccgca acaccacct catccagcc catcgccaca aaccctaac 120  
ccaatccaac gtttcttctt ccgcgcgcgc ctctctcttt tccggcgggc actccgcgc 180  
aggccccgg cgtactccct cctcattcc gcccgctgc tccgcaattc tccccgtcc 240  
cctcgcccaa cccggccttc caaagccctg ccgttctctc gcccggcgtg accggcgccg 300  
ccgtggcagt tccgccgacg cagatgcagc agatgctttc gtaccagatt caaccggta 360

atccggccct gcggaccttc gctccgatcc ccaacggtta cgctgcagct ccgaccataa 420  
 ctcccgcggg tgggtcattc attcattcat tcaatcgttt gatgttcctt tgtgaatccg 480  
 catttaaatt cgatttaatt tagtgaatt caacgctcct tcgttggatg cttcaatggt 540  
 tatgactttg gattattagt attatca 567

<210> 3414  
 <211> 540  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055h07a1  
 <400> 3414

aagcactata gtaaaaaaag gacattcatt catctatggc tacccttatt gctcccagca 60  
 accactctcc ccaagaagat gctgaagctc tcagaaaggc ttttgaagga tggggaactg 120  
 atgagaacac tgatcatagta attttgggtc atagaactgt gtatcagagg cagcaaatca 180  
 gaagagttaa tgaggaaatt taccaggagg atcttgtgaa ggccttagag tctgagatca 240  
 aaggagactt tgagaaagcc gtgtaccgat ggatactgga acctgcagat cgtgatgctg 300  
 ttttggccaa tggtgccatc aagagtggca aaaactacaa tgatcattgtg gaaaatgcc 360  
 ctatcctctc cccggaagag cttttggcgg ttagacgcgc ctatctcaac cgctacaagc 420  
 actccttggg agatgatggt gcagcttata cctctggcca tctacgccag cttttagcgt 480  
 ggttggtgac cgcattcagg catgttggtg atgagatcaa tccaaatttg gcacaatctg 540

<210> 3415  
 <211> 615  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055h08a1  
 <400> 3415

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 cagagtacag tggcgtccaa gtggaattgg cccctaattt cgagatgggt gtctctaaca 180  
 aaactcctga atttctcaag atgaatccta ttggaaaggt tcctgttttg gaaacgccc 240

atggtccagt ctttgagagc aatgcaatcg ctcgttacgt tgctcgacta aagggtgaca 300  
acgctttgtt ctcacattct gccattgata atgcccacat tgaccagtgg attgattttt 360  
catccttgga gatcgatgct aatctcatga aattgctcct accaagactt ggatttgccc 420  
cataccttcc tccagttgag gaggggtgcaa attctgcgtt gaagagagca tttgaggcct 480  
tgaacactta tcttgccctac atacttacct tggtggcatt ctgtaccctt gtgacatata 540  
aaacatgcac ttgatttagg atcacccgct cttagtaaag cttaccttga gttcctacgt 600  
tgacgatctt tggac 615

<210> 3416  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055h08d1  
<400> 3416

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aagttaaaga gcacattgct cccccgaaga tacaatgaag aaaccacttg cacagttgca 120  
ctgtttgata ataaattaat actaataact actatatgtt tatcttatac gtaaaattta 180  
acctgcaaat taaagtgcac acattcctct atgcactgag aatctataag ccgtatcgaa 240  
gatcctattt gaagaagaac cattatcctt taatcctgtg gcagagattg ctctccatt 300  
ttacttgttc tcaccatctt tttctttttc ttctgtgtca tcaactacat taaaagctgg 360  
gtgtttgaga acgttggtga gcaactgtgt ccctctgaga gcg 403

<210> 3417  
<211> 405  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220055h09a1  
<400> 3417

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ggttccccac tgccatgtac caggccgaat taacctccga acaggttctg aggagggaca 120  
tcccatggga gacctacatg tccaccaagc tcatctcagg gacgagcctt cagctcttaa 180

ggcgctacga tcaccgacca gaaagtcaca gagcacagct gctcgatgat gatggtcctt 240  
 cttatgttcg cgtgtttgtt cgtgttttgc gtgacatttt caaggaagat actgtggagt 300  
 atgttttggc actgatagat gaaatgcttg ctgcaaacc gaagagagca agactgtttc 360  
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<210> 3418  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055h09d1  
 <400> 3418

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 taggaagcaa atttatgaaa tcttacttct gggaagtatt ttgtctcaac aagggatgat 180  
 caggtattct tctctaagac agagagtgcg ggtgtcaagt agttatttgc ttgtcgggc 240  
 aagtgtgcaa ccagctcata aagctccctt ccctctcag caatatactc gtaacataca 300  
 tcaaagcttt tgttccttgc agttgtatca tgtagtgcct tcacacatat atcagctaca 360  
 tcagcacagc tgatgccctg agatattctg tttccttgat caaatattag agcacgct 418

<210> 3419  
 <211> 518  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055h10a1  
 <400> 3419

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 aaagagaaaa acaagtgttc tttgaatctg ttgaagggtg tgatttgatt tgatttgaat 180  
 aattcacata accaattcat ctattcatta tctctccgat ctttcaatgg attctgactt 240  
 ctggacctcg cgtcttgccg ccgctaaacg ccaatacacg cttcagcatc accatccaaa 300  
 ctctcactta gatcggttgg gaatcgatga ttttgatatg gaagaagagg tgagaccoga 360

tttcccttgc ccctattggt atgaagactt tgacatcgcg tctttgtggt ctcatcttga 420  
 agatgaacat tcttgtgaat caagagtcac gatttgcct atatgctccg ataaagttgc 480  
 acggaacatg ttaagtcaca taacgctgca acatgggc 518

<210> 3420  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220055h10d1  
 <400> 3420

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 tatgaaacta aacacataac ttgcgagcct caagctagcc ctagtagtat taggtcttca 180  
 ttcttgagat caatttgatt ctctcaacgt ggctttggat ccacaatctc agagaaaaca 240  
 gtcccagaca tcaacttata actctctttg tagctactac taagctcttc gctatcagta 300  
 ctcacactca ccacaccgct actcttgta aaatccgaaa cctggccac actggttcca 360  
 gtactaaaca aatcatcact agcctcctnc tctcttctct cattaatntc attatcaaca 420  
 atattagtat ttacagctg ctacgactc tctgcaact gcaacgcana ctccagcatc 480  
 caaacgacgt cg 492

<210> 3421  
 <211> 603  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055h11a1  
 <400> 3421

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 tggagaagag ttttgctttt caaacaacaa aggaggacac agaaagcaac aatcttcac 180  
 aatatactca tcttgctcac ctacgctcac tcttctcttc atcttctctg agctcttctg 240

ccaaaggtcc caaaagaaaa gcatcattag aagtgggtaca caaacatggg ccatgctccc 300  
 aactgaataa tcatgatggc aaagcaaagt ctacaacacc acacagtgag attctgaacc 360  
 aagacaaaga aagggttaag tacattaact caaggatctc aaagaacttg ggccaagata 420  
 gtagtgtgag tgaattggac tcagctacac taccagccaa gtctggtagc cttattgggt 480  
 ctgggaatta ctttgtgggt gttggctttg aacacccaag gggacttgta ctcatctttg 540  
 aactgcagt gatctcactt ggactcaatg tgaccatgtg cttgtcttgc tacagcacia 600  
 gat 603

<210> 3422  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055h11d1  
 <400> 3422

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 cgtttgacag tcacagacaa tcaaaggtag tggaatgtgt gtgcggtaca ttacaacatg 120  
 ggaactgctt caagagtaga aggaagtaaa agaacaccct atgacacccc tgctatgcgg 180  
 aagttattgt tagatgattc ccaacttcag cagagaaaaa gaatggcaca taaaaagcag 240  
 gcaatagatc gtggcaggcc aaaaagatag accgaaaaca ggattacatt attggtccaa 300  
 gtatgcaggg agaatatcaa acgaagaaat gagaaatcct cgcctctcag cagctttacc 360  
 ctttgcaatc tttgcacagg ggggttgacaa ctgatcataa ctattttcag attgcctact 420  
 tggagtatgt ggttgggtcca tgaagcttgt ttcattatac agctcgggtg aagataaaac 480  
 attcagcagt tgcgagtttt tcaaaaatcg atgtctagta aaac 524

<210> 3423  
 <211> 237  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220055h12a1  
 <400> 3423

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ccattcaaatt gtcttctttt gtctttgttt ctcttacaat tttattttgc ttctcttcct 120  
 tggagaagag ttttgccttt caaacaacaa aggaggacac agaaagcaac aatcttcac 180  
 aatatactca tcttggtcac ctacgtcac tccttccttc atcttctgc agctctt 237

<210> 3424  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220055h12d1  
 <400> 3424

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 aagtcgctgc agcatagggg tagtggcggt agaactcaga atttcattct taacgccaaa 180  
 aagaacagcc agtaaagcta ctggaaaagg atcaactcta gtaagaaaaa caattttctt 240  
 acctttccca agtgctgtgc gaatcctttt gttgatattt gaggagcgat tgttaactgc 300  
 agaactaatc caagcagtgg gtgggtaaac caccacgttc actaccacat gtaacattta 360  
 caacgacagc ttctgaaggt aattgactta caggataaag acaattcaca aaattggtaa 420  
 ccaagaatcc actggaaaat t 441

<210> 3425  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220056a01a1  
 <400> 3425

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 tcagtcgttt tggcaattca gtgaccagct gaggttacag gcatccaatt tggcgaacct 180  
 ttctctaaac gattcgattt ggagcaacaa ttacatctcc aagaggcgtg atgaaaggat 240  
 taattttgac atcaaagtgg ggggtgagat caactcttcc aagtcaaagg atccagcttg 300  
 tgattacaac gataacgtga atggatctct tcttgccatg cttacaaca acaacaacaa 360

caacaacatt attttgggtg ttggtggagt tgggtctcaat ggaggcttca acaagggaaat 420  
 ttactccaag cctgcctttg ccaatctcaa caacaatatt aatctcaata tcaatcctaa 480  
 gggacacaag ggcaagggtt gaagatgagc ttttt 515

<210> 3426  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056a01d1  
 <400> 3426

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 gtgcctgtgc cctccccaga gttttaatta ttattattat tattaaattg ggccaggagt 180  
 atgtatctta gcaggagaat acataaagct taaggtttct cccaatcatg agatatacat 240  
 tataatacaa gattaagctg gaacagcttc cggcactttg ccattgcttg agagtactaa 300  
 gctatcatag tattcaacca gtaccttcca accaccaggg cacataaatc catcaggagg 360  
 gctttctttg gtccttgcca gtgtgcgcac ctttgtgcct gatatgaaca ggaagtcctg 420  
 aggccctgaa gggtaaaga atgccatttt accctgagtc ttgtcatatg cagcaaccct 480  
 gaaag 485

<210> 3427  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056a02a1  
 <400> 3427

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 tgttgcgagg tgtgaggttc atagtgttgt tgacgtgaac aagcagaggt cgttccttac 120  
 tttgaatgag ttgaatgagt ttgatcccaa gtattcgggt gtggactgga ggcagaagtt 180  
 ggagactcag aggggtgctg tgttggccac tgagcttaag aacaatgcaa ataagttggc 240  
 taagtggact gctcaggctc ttttggcgag cgcggtatcg atgaagttgg ggtatgtgtc 300

gaggattcat ccccgatgac atttcaatca tgtgattttg gctgtggttg gatataaacc 360  
 cagggacttt gcggcacaga ttaatttgaa cagcagcaat atgtggggga ttgtgaagtc 420  
 tattgtggat ttgtgcatga tattgaatga cgggaagtat gttcttctg 469

<210> 3428  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220056a02d1  
 <400> 3428

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 cataagttta catgctcggc agcagacagc caaatggct gattactatt atttaciaag 180  
 gaaacagatc atgagccact acacttgtct tgactccctt ttaacccttt catttttatg 240  
 ttcaagtggg aaaaagcagg gcacacgaat tggatttttc atacaaatga ccaatttatg 300  
 aaagagaaaag ccaagcagtg aacatgggtg tcttcccaag taggaacttt tccatgcaat 360  
 ggcttgggtca tatgacacat ggcgccccat cgtcgacatg cagatttcag ctggcagatt 420  
 agcaaaaccc tgetccatta acttggcaaa gtctgtacac aatgccttgc gtnacgcctc 480  
 atcanatatt ttatccaatg tgatatcttg taaggcaaac ta 522

<210> 3429  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220056a03a1  
 <400> 3429

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 cattttgctg atattgaatt tttattttct cttgttttcg tttcttttcg acattttctt 120  
 cttcttcttc tgettcgggt ttttcaggga gataggata ggagtaacaa agggagagtg 180  
 caatcagttt gggttcttcgc ttcgggactc gaatcttcga tgcctctctg ttttttcttc 240  
 tctgccgcct ctttttctgt tctcaaatta gggtttctgt gagagtgcct ctttttctcga 300

ttctccgcaa actatcatca ttgtaaggga aagcgatttg cgtttggaca taatgtcgcc 360  
 aaaatatcag attctccaca atcgcccat caatcagtgg aaggttacag agctgaaaga 420  
 tgagctgaag aggaggaaga taagtaccaa gggtttgaag gatgatttgg tcaaacgttt 480  
 ggacgaagtc cttcgtctgg aaaaggaggt tgatgaggct tctg 524

<210> 3430  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220056a03d1

<400> 3430

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 cttgtaaatt gtaattgctt cttcagaaat agaattatac aaaggtagtt gcaatatcta 180  
 tttgccaaac tataaatgta aagacccttc ttcccaatcc tagtagtgct ccaattgtat 240  
 ttacaaaggt gggacaagat atgtatatac aagtacaacc atgctcgagc cgaatcggct 300  
 cgag 304

<210> 3431  
 <211> 596  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220056a04a1

<400> 3431

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 agagctattg agagaatata tgacaggtac agaactacag atcagagccc gtgtttttgt 180  
 aaagagtgat tgcacctgt ctatctagat ttggggcaca attcaatgag tatttgcaca 240  
 attgcttttg gctaattttg cccggagcag agattggctg gctgagcagc ttcggactac 300  
 ttgcaaatga attcttaca tagaggtata agcagcaaag aattgtatcc ataagctgct 360

gatgctttcg ttttgactg ctctcgcggt agatatagtt ttcaagagga ttcacttgca 420  
acaattcatt gtgggacaac aganagatca ggcattttat ggaagaaata accgtgtcct 480  
ttaatttga ttcatagtca gatgtgtggt agttgctcag gaacatgttt aagttaatca 540  
agccagctga catagaatat atgtatttag gaatcaattt acccttcaaa agccta 596

<210> 3432  
<211> 446  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056a04d1  
<400> 3432

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caaatactaa tttgttaaga attaatcgaa ttgaggctat agcatcatca ttagctggaa 180  
ttgaaatatt gccgaggtcc gggtcacaat ttgtatcgat taaacaaatt gttggaattt 240  
ccaaagtatt acattctcga agagccgtat attcttcttg ttgatcgacg attattacaa 300  
tatcaggtaa ccccgtcata tatttaaatgc cgccaagata tgtttccaaa tgagctaaat 360  
gtctcttcaa tatagcggca tctctttttg gaaaactatt gagtctcccc gtttttgttg 420  
cattctcaag tccctgaact tttgaa 446

<210> 3433  
<211> 564  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056a05a1  
<400> 3433

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tgtggcccca tcattgacaa cattgctatt aagaagcttt tcactcctga taaacccaaa 120  
gacaacgcag tgatcaatgg ggattttgaa gagggccat ggatgttcag gaacacttca 180  
ctgggtgtgt tgcttccac aaatttgat gaagaagcgt cctcactacc cggttgata 240  
gtcgaatcca accgtgccgt ccggtacatt gattctgatc attactctgt tccacaaggc 300

aggagagcca ttgagttgct ctcaggaaag gaaggaatca tatctcaaat ggttgagacc 360  
aaaccagaca agctctacag cttgaccttc tcattgggtc atgctgatga caagtgaag 420  
gagcctcttg ctgttatggc ctttctggtt gaccaggctc agaacattca ctacactccc 480  
aattccaatt ccaccttcca aactgctaac gtcaatttca ctgccaatgc tgagaagact 540  
agaattgcat tctatagcat atac 564

<210> 3434  
<211> 525  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056a05d1

<400> 3434

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tctgattatg ttttacagca cggaaaggag cgcagataag caaagaaatg gatttgtatt 180  
atatactgta catgatgctc cacatccatg caaaggagaa attttttcca tcaagttgcc 240  
tgcaataatt ctctgatatc gtacccttga agctgcagaa aagtaagaaa taatataact 300  
cctgagttcc aaaaagaatg gatagtgatg ggagtgcagaa ggttgtgagt ttgagcatat 360  
gaaaacccca aagcagtcct tagaacaac aattggggaa attcttcagg agtgagatgt 420  
gcaagggcaa aaacagcagc actaatgaca acagcaactg gcgtaggaac ccacttagtg 480  
aggggaagtca ttaaaaatcc ccgaaaacag tcttctcagg agtgg 525

<210> 3435  
<211> 461  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056a06a1

<400> 3435

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ataacaacat cagcgatcca accttagtat tcttcaacct agagagattt gtaataataa 120  
attacaacaa cttaaacgat ggcaggagga gcttatgtag attcgggaaa tgcaaagcaa 180

ttt gatggga aggtcacggt attcgtattg gttacatgct ttgtggcagc catgggaggc 240  
 ttactcttcg gttatgatct tggaataacc ggaggagtga cttctatgga accatttctc 300  
 atcaaattct tttccggtga ttataaaca atgcatgatg atgttggcca tagaagccaa 360  
 tattgcaaat ttgacaacga gcttcttaca ctcttcacct ctttcttgta tcttgctgct 420  
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<210> 3436  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056a06d1  
 <400> 3436

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 accccatttt cgggaaaaaa aaaagggccc cgcgccatgg cacccaaaaa aaaaccctt 180  
 tttaaaaggg cccccattc cattttgggg aaaaaaggg cccccaaaaa ccagtcccc 240  
 ccattaaggg gccctttta ggccccccga aaaatttggg ggccccattt ccacccccca 300  
 cgggggcccc cctaaaacaa atggggcccc aaccatttt tggggcccc ccc 353

<210> 3437  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056a07a1  
 <400> 3437

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 atgctggtgt ggcattgtga tataccactc ctttgcaagg aattgagagg tatgtgaaga 180  
 cggctcatca agtgggggtgt aggggtgtgg cttgtatggg aatgaacta tttggggctg 240  
 cagagaccat agctaggcaa gctgatgcga ttgatttggg aatgggcctt gaccagactg 300  
 tagaagctga aacaagagat agagttgggc ttctcttacc gggccttcaa caagaacttg 360

tgacaagggg ggctagggcc gctaagggcc cagttatctt gctcattatg tctggaggcc 420  
cagttgatat ctcgtttgcc aaaaatgacc ccaagattag tgccat 466

<210> 3438  
<211> 452  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056a07d1  
  
<400> 3438

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acatgcatct caaaagaaat atttttttaa ttctttaatt aatgtctaaa gacattaatt 120  
aacatttccc ttataatata agaaatctct agccattgaa acttttttagc ttataaaaaa 180  
ataaaagaaa aaattaaagg aaattttcac acataagaac tagttgaatt gacctactag 240  
gctccactcc agccttgaac aaatcaatca tcacctcaaa accattgcca ttcattgtaa 300  
actatcatca tctatcaaat attaattgcc acaagtcaaa ttcctcttac aatctcttga 360  
agcctcatgc agaaactgtc aacataagat gactccaaat ctttggttaag cagcaactct 420  
ctgatcctag catgattagc cctaaccctt tt 452

<210> 3439  
<211> 418  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056a08a1  
  
<400> 3439

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tgaagggttg tttcatagtc ctatgattct tctttttttt tttttttgaa tttctaattc 120  
tctcttgctg tgattccatt ggaaaaaaaa aaacgggtta aaacgcgatt ttagatcgtg 180  
ttttctggaa ctttttttgt tctgtatggt ttagataatt agaaacttca ttggtatatt 240  
tgtacgagac atttaactgt ttacgtttg actctgtttt cattccctaa tttctgaagt 300  
ctgtgctaata acatgaaaaa ttatctatga agcgtctcag cataatcaat taattataat 360  
tcttgcatca aatttatagt aattgtattt atttcctag aagattgaaa taaaaatg 418

<210> 3440  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056a08d1

<400> 3440

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 aagccatata aaaatctggg aaacactaaa atcaagcagc accctttccc ttctttttct 180  
 ggagtttttt catgtaaaac tccaactcct taccttccaa aatgtagccg tcagctctgc 240  
 cacattgacc aggccgagag gaaatgcaag caagcaaagc cccaccacca aactgctcct 300  
 caatgtgagc atcaagctta cgatctttct ggcgcttctc caattttctc tgcagatgat 360  
 tactcttttt ggcttcttcc acagcaacag cagcagcacc ctctctgca gtttcttct 420  
 tggcagctgt cttcttc. 437

<210> 3441  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056a09a1

<400> 3441

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 ggaatttgag attttgtggg tggacttga catggattga ggaatgaagc gactttgtca 120  
 tgttatttgg ttggcgattg tgtttgtgct aggaaatttt cgaaaatgtg tttctcagtt 180  
 gcccgaagtc ctgattagtc tttccccca agtgtttggg tatgttctat gttgtggagt 240  
 atcgggtgta gtcgaggctg ggcacttcat ggacgattta agggatctgg gacagtttga 300  
 actcctaggt gaagaaaatg attctcaca agcagtaccg atgcatacac tcagctagct 360  
 gtcaatgtac taaagggcat ttaagtgaag atgtgatatt cttagtattt cataatttga 420  
 attggaatcc caagctaatt gctactctat catgtgtgtg caaatggttt gatgatcttg 480  
 ccaagcgagt t 491

<210> 3442  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056a09d1

<400> 3442

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 aacgacagcg tttgtctaga tggcataaat acccccataa agaactatcc aaagggttta 120  
 ttccagtccc taaataaatc agtaaattat cattgcatcc aggttgacac aatttacact 180  
 atattcaaaa gttgggattt gtctataaga gaaattaatc tcaaactacc atgtgagttt 240  
 ctttcaaagt tgatgggatc cccacgtcca gccgcatggt cgattttatat tgctctggtt 300  
 aaccagcacc agcctgaatg cacattttta ctactgcaag cgcttgacca taaaaattcc 360  
 taagctctcg ttctagcggg gcattttacat taggaacatg ccacacaaat cttggaggga 420  
 tcaaatca 428

<210> 3443  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056a10a1

<400> 3443

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 tgacaaataa tgtgaatagt aatttctatt tgcttcccta gcttgtctat gaggatacta 120  
 tcaggtgact aatatcaata cgagatgcag ggatattgct gctggagaaa atggaatgga 180  
 tgtgatgttc aacttgctta cttctacatc ctataagtgg atccattcac cagaacttct 240  
 gtcagcatta aaatcccctt tgatgcgttt atgtgccagg taccttctgc aagagaagaa 300  
 aagaggaaag gctttggact cttgagcaaa ttttcacttg ccaaattggag cgatgggtga 360  
 aagaataaac tgga 374

<210> 3444  
 <211> 269  
 <212> DNA

<213> Glycine max  
 <223> Clone ID: jC-gmf102220056a10d1  
 <400> 3444

tgggggtgcgg accaggcctt cccgggtcga ctagctggcg gccgcccttt cgtccttttt 60  
 tttttttttt ttctttatatt tttttttttt ccccttgat ctaaaagagt gattcataca 120  
 acagagttta aataaccgt attacacgt taccttacct attccccttt ctagtcctat 180  
 cccccaaggt ccaaagaatg cttacatgct ggtaacttgc ccaaggattt cttgaacaag 240  
 cgagccggtt gacctttgtg atacatggg 269

<210> 3445  
 <211> 502  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056a11a1  
 <400> 3445

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 ggtcacaaga taaaggggaa cttgggtgatt atgcgaaaga atgtgttgga tatcaacagc 120  
 attaccagt ttaaggggtgt aatcggaacc ggcattaaca tcattggagg agtcgtcgac 180  
 accgttactg ctttggcgtc ccacatctcc atccagctca ttagtgccac caaggctgat 240  
 ggacatggga aaggaaaagt tggaaaggct acaaatttaa gaggacaagt gtcgttacca 300  
 accttgggag ctggcgaaga tgcatacgat gttcattttg aatgggacag tgacttcgga 360  
 attcccgtg cattttacat taagaacttc atgcaagttg agttctatct caagtctcta 420  
 actctgaag acattccaaa ccacggaacc attcatttcg tatgcaactc ctgggtttac 480  
 aactcaaaat cctaccattc tg 502

<210> 3446  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056a11d1  
 <400> 3446

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 tgatagcctc tactcgtgtc ctacgtcgtc taagagctag atttgccca attgtttgtc 120  
 tcttgccctc cgccttattc aaattagctt ctgctatttc aagagtttgc tgtgcttctt 180  
 gtggatcaat gtcactaccc ttttccgcat catttactaa aacagtgatc tcattattgt 240  
 ttattctagc aaaaccggcc atcagagcca tcgttaacca ttggtcttta agaagacgta 300  
 ttctcaaaat acctatatct acggctgtgg caataggcgc atgatttggg aatactccaa 360  
 tttgtccgct attagtagat aaaatgattt ccttcacttc cgaatcccaa acaattcgat 420  
 tgggggtcag tacacaaaga tttaaagtca tttc 454

<210> 3447  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056a12a1  
 <400> 3447

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 tcggttgata tccaagaata tgtccatata tgtatgatgg catgtgaaaa ttatgggaat 120  
 tttggtgttg gcatttgaat tgtttgtttt tcatggaatg gcattgcaga taactccatt 180  
 gacacttcaa ttctctaaga tgttaagatc attggatctt aaaatgtcag ctaaactcatt 240  
 attgtactga aaacactgtt gagaacaact taaagaggat tggcatatcg aatatgggtgg 300  
 tgggtggtgag aagaggaagt taatatcgac tttaatggaa gtctcttttag gtatcttaca 360  
 aagcgggtgat gggtgtagag agttgacgtt tgggggtgagt c 401

<210> 3448  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056a12d1  
 <400> 3448

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 agggagacat ttgaagaaac agaacaagat acagaggaaa cctttctcgt ctattgcccc 120

ttgacacaac atataggaaa aactatatga atatagtgag acaaaatgat taaaatgaac 180  
 tatggacagc tatagggaac tgaggatgtc ttttattatt gacaaaatag ggttgccaaa 240  
 aggatattct tccaatgtct gaaactttat tccatccatc cgggcttgaa ctccatcaga 300  
 aaatgtcaag ccctgaagca gttcctttgc cgttctgtca gctccaacga gggaactacc 360  
 tacgcctaac aaaatctcgg gtagagaacg gcttgctcta gagatctcca caagtgtaac 420  
 ctgtct 426

<210> 3449  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b01a1

<400> 3449  
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 tcttgatgag cttattaagc cttgtcctga agccatatga aatgatattg gaatctcttg 120  
 gtgaattcca gttccacatt ttttaagatta atcgaggcac taacgatcct atatgaattg 180  
 gaagtctttg ttaatcttat taggcctatc ctgtatccta tggaaatgag atcggtatat 240  
 ctcggggaat tgcacttcca cattttcaag atataacgat gcccatatgt tcatttatga 300  
 attggaatta ttgggattct tattaggcca attctgaagc cactggatat gagattggaa 360  
 ttctctgggg gtaccgagct tgaatgcctt attgtgag 398

<210> 3450  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b01d1

<400> 3450  
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 ggtctctgca ctaaataaga aataaattaa atcgaattaa atgcaaacct gatcctgatg 120  
 tggtatacaa aaatttacga cttctttttc ccccaaact tgtcttgtct cccttttaac 180  
 cctttcattt ttatgttcaa gtgggaaaaa gcagggcaca cgaattggat ttttcatata 240

aatgaccaat ttatgaaaga gaaagccaag cagtgaacag tgttgtcttc cccagtaaga 300  
 actttccatg caatggcttg gtcatatgac acatggcgcc ccatcgtcga catgcagatt 360  
 ccagctggca gataagcaaa accctgctcc attaacttgg caaagtctgt acacaatgcc 420  
 ttgcgtccag cctcatcaaa tattttatcc aatgtgatat cttgtaaggc aactagggtt 480  
 gtttccaaca tgtcaa 496

<210> 3451  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056b02a1

<400> 3451

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 ttgcatcgca tattctttcc cttggaaaaa tgcaatccaa ggaagagaca agaaacatga 120  
 gttctttggg cacaatcctc aagcctcatg ctgtgtgcgt accgcacca acacaaggcc 180  
 acataaacc aatgctaaaa ctagcaaagc tccttcactt caaaggcttt cacataacct 240  
 ttgtcaacac tgagtacacc cacaaacgcc ttctcaaata aagaggtcca gattccatca 300  
 aggggtctccc ttcatcttgc ttgagacca tccctgatgg tctaccagag cctcttgtgg 360  
 atgccacaca gcacatacct tccctgtgtg actccactag aagaacttgc ttgcctcact 420  
 tcaggaacct tcttactaaa atcaatgatt cagatgcccc ttcagtgagt tgcataagtt 480  
 tctgatgggtg tcatgagctt cactcttgat gctgctgaag aattgggtgt ccac 534

<210> 3452  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056b02d1

<400> 3452

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 gaaacctttt ttggccaaag gaacttcaca tgatcagggg tgccaaccct tttggaagga 180

aaataaagag tccatgatag atgataatga tgatgagggt tccagcttta agctgtcatt 240  
 ttcactgata ccaaataagag atatctgcct gtttctgaag agcattcatt ccttcttctt 300  
 cttggata 308

<210> 3453  
 <211> 93  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056b03a1

<400> 3453

aaaacatgaa catacaaggt atgcttggtt cagcactggg cgaacaatct ttatgggacg 60  
 actgaaatgt ttgagattac tgttcattca tgg 93

<210> 3454  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056b03d1

<400> 3454

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 aaaaaaaaaa ccaaaccaga agggaaaccc caaaaggggg gggaacaaaa ggaggggggga 120  
 aaaaaaaaaa agcccccccc gaagaaaaaa aaaaaaaaaa accccaaaag ggggggcacaa 180  
 ccggcggaaa aaaccaaca agggggggggc aaaagaaaga aaaaaaacac aagaagaacc 240  
 cgcccacaaa aaaaacgcgc accacacacg cccaaaaaac aaactcccca aaaaaaaaaa 300  
 aagcccaccc ccgggggggag aaaaaaaacg gcggccgggg ggcgcaaaaa aacaaaaggg 360  
 ggg 363

<210> 3455  
 <211> 515  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056b04a1

<400> 3455

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 atggaggggt caggagcaaa tgtgaaggag accagtaagg cagttgcaga agcagttgag 180  
 aaggtgaaag ggggctctag attagtattg ggcaagttcc aggcccatc agagggtaac 240  
 tacagtttga cttgctattg tttgtgtgat tcttggttgg gctgtgacag aaggacaaat 300  
 ttaaagctca aagttttgaa acggactcgg gctggcacca gggctgctgt tttggctgat 360  
 gaaggaccta tcatggaaga tggagttgag gaggatgagg acaacgagga tgaagagtat 420  
 gatgatgact acgagagtga gtacagtga gatgaagagg atgatcagaa cacataatat 480  
 aagcaacaag ctgccaatgg cactgtgaat aaaca 515

<210> 3456  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b04d1  
 <400> 3456

aacaaataca atgtcagtga agttttatta ttaaataga tacatggcac actgacgaca 60  
 accttacct acaggtagca aacctgtatt cacaactgg taaacgtttc atcagatgta 120  
 atatttacag agggaggaag aatggtaaaa gaacatcacc aactaccta tcaaagtaca 180  
 attttctac cttgataccc ccttcaccac cagattgcc aacgatttgg atattctctc 240  
 aactcaattt caactgatga cagaataact caattcgtca acaacctaac gtaaaatgga 300  
 gtaataatgt aacatgctga taaaatttgt taactacgga gaccattaca atgaaaacta 360  
 gatttaaact caactctggg gcatggggta acctttgatt gggttaaaag gatcacttac 420  
 tagacctttt cc 432

<210> 3457  
 <211> 508  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220056b05a1  
 <400> 3457

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 ctcttgctcc ctacattttc gatcacttta aagtctcaaa cgtaatggct gaaagcgcg 120  
 tgacgaacag gaagcgcagc agcggggacg acgccgtttc ggagaatgac agaaagcgga 180  
 agaatatggt ggcacgcaac atggaccggt ctgaggcgtt ggccttgacg cggcacgagt 240  
 tcggggagca cggTggcgta aacatgtcga tcgaggcctc ggcgacgttc acggtgatgg 300  
 agccggagac cctcggtcgc atgttcgccg gcgagctggg cccggaccgc gattttcttca 360  
 ttacaggcg gcacttcaac ccgacgggtt tcaacctggg ccgncacatg gccgccctgg 420  
 aaggcacgga ggcgtctac tgcacagcca gcggtatggc cgcgaactcc tcggtactcc 480  
 ttcagctctg tagcaccggc gggcacgt 508

<210> 3458  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b05d1  
 <400> 3458

cccctattaa ttttggggaa aaaacaaaa aatacgggga aaaatttcaa aacccgattt 60  
 ccccaaagg gtaaaaaacc ctaaaaagg ggggcccgga aatttatccc aattttccca 120  
 aaaaaaaaa aaaaccctt tttcgggaaa aaaaaaggg cccagacca gggcacccaa 180  
 aaaaaaacc ttttttaaaa tggcccccca ttccattttg gggaaaaaaa gggcccccaa 240  
 aaactaggcc ccccatata gggggccctt taaatcccc ggaaaaattg gggggcccca 300  
 ttagcaacc cccagggggc cccaaaaga gaaatgggcc cccaaacaat ttttgggggc 360  
 cccc 365

<210> 3459  
 <211> 583  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b06a1  
 <400> 3459

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ttcgtcaaga ccctcaccgg caagaccatc acccttgagg tggaaagctc tgacaccatc 120  
 gacaacgtca aggccaagat ccaggacaag gaaggaatcc ccccggaacca gcaacgtctc 180  
 attttcgccg gaaagcaact tgaggacggc cgtacccttg ctgactacaa cattcagaag 240  
 gagagtactc ttcacctcgt cctccgtctc cgtggtggca tgcagatctt cgtaagaca 300  
 ctcaccggca agaccataac cctagagggt gaaagctccg acaccatcga taacgtcaag 360  
 gccaaagtct caggacagga gggatatccc ccggaccagc aacgtctcat cttcgccgga 420  
 aagcagctcg aggacggccg caccctcgcc gactacaaca tccagaagga atcaaccctt 480  
 cacctcgttc tccgtctccg tgggtggcatg cagatcttcg ttaagacctt taccggcaag 540  
 actattacc tagaagtcga aagctccgac accatcgaca acg 583

<210> 3460  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b06d1  
 <400> 3460

ggggaaataa aaaggcataa tggattaaga aacattttcc ttccttttcc ctcgtacaaa 60  
 aaatttaaaa ccacacaaca ctgctatatg tatacatgaa taaaagaaag gggagctctg 120  
 gtttcttgat actcaagtaa aactttctga gtgtttggac ttatgggaac gccgtgccca 180  
 ttcaatggat gctcttggtg tggatccggt gcggttgagg gattctggtt gagcatctga 240  
 tggtcgtgga acaagcttac acccgatttt cctggcaacc aaccgaggcg agcttcgtga 300  
 actgtgagat tttgtcacac ttttcatttc ttgctttatt ttactgaact cttcttcaag 360  
 ttctccaact ctagaactca tcctatccat atccaccttc aaaacctggt tttcacgcac 420  
 aacagtcacc catccatccc tttgtacaat tt 452

<210> 3461  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b07d1  
 <400> 3461

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 aacagaaacc aaaaatacag gatgatgaaa ttcataaag caaaaacaaa tgggaatgta 120  
 gtttaagtac aacaaacaaa gtgggggtggc tacagatgct ttgcaaattt ttcaatgact 180  
 tagaagcctg ggggcttgta agcgatgaag ctgatgcact gtacttggcg aacgttgta 240  
 aatccaatga tacggatgaa gccattgggg tatgcagtct tagcctcttg aagctccttc 300  
 aacacctgag aagcatcagt gcagccaaac ataggcagct tccacatggt ccagtagcgt 360  
 ccatcatagt atccagggtga cctgttggtgc tcacggtaca cgaaaccgtg ctatatgcaa 420  
 acacaacaaa ca 432

<210> 3462  
 <211> 106  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b08a1  
 <400> 3462

ccaatttcca tggcttcctc ggttttcgag gttttttgat catgtcatcg gatctagggg 60  
 gctacagcga ccagtactga accttgagc tctttgccgt ctctgc 106

<210> 3463  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056b08d1  
 <400> 3463

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 ttatattatt tggatcacia agtccatcta gaagctatat atggctccta gtcttggcac 120  
 aaagacaaag atcgttctta ctgaggcggg ggagacctgg caatgcttga acatcaagg 180  
 ggtcctttat catcccttgt ggcaatttgc aatcgacgga atgaagaaga ttcgctggaa 240  
 caagtgataa tatcacaact ggcataggta aacctgggca acttctgcga cctgatccaa 300  
 aaggaattac ttggaaatat tggccacgaa aatc 334

<210> 3464  
<211> 473  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056b09a1

<400> 3464

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tggaaggggtg agtagagata gagagagcaa acgcaaacgc tgggtgtttc gtttttgttt 120  
tggtgctgtt ttttttttat ccacatatat tacttgtaa tattattaat ttttgtttaa 180  
caaaaaattt ccaactgatg atttttactt tatatctctc ttgtttttgc tactttattg 240  
ggtgttggag agagagagtc agagataaga cttcaagtt gagttgagtt tttttattgc 300  
aatctgtttt tgtctgtcta ataaaatatt tttatttatt tatgagcctt ctagagagaa 360  
agggagatga atgttggttac ttgttattag tggaggcttc tgaagagagt gaagagtagt 420  
agcgtgtgtt gtgttggtgt tgctgctgct gctgcaatgg gaacttcacc aac 473

<210> 3465  
<211> 493  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056b10a1

<400> 3465

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cagatccaaa cccttaaadc cttttccata atccaatcca ctaggtgcaa gtccaccatt 180  
tcctccctgc tcctctccac tttctccaac aacacctcca ataatgccac tgcccacagc 240  
aagaaaaaaaa gcaacttttc tgcttaacct tcagaggggtt gggctgcact gctggctcgt 300  
cgcagcaggt gtcggtgccg gcggtgattc gtcctccgc cgattggcaa gggaagaaaa 360  
caagaaaaaa gaagcacaag agaagcaaca gaagcagcaa gaacaagact ttccatgggtg 420  
gggttctgga aggttccaat ccagggtgtg tggattctca agatgttttg tgtggccctg 480  
gaattgtgtt ctc 493

<210> 3466  
<211> 347  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220056b10d1

<400> 3466

ggatatgcag taaggggact caggcttacc gcgagactcg cttttcccaa atcgctgttc 60  
actattaaga aaatgggacg aagatgaaat gccacttgt tttatagcag ttgtccttaa 120  
tcggagttgg attaaaggca atctatttac gcggacgggt aacagggcct cccgcacact 180  
tataaatcga ctgatgaaac ccatgtttga atagccaaat cggccccccg attggaaccg 240  
ggggcaacgc ccactaaagg agcgcttga tttcataaag aggcgcttat attattccac 300  
ggcacattca tccctatctc aaaaccctca tctattaacca gaaatac 347

<210> 3467  
<211> 390  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220056b11a1

<400> 3467

aaaaaagttt gtcattgtcc catattcctg gcactggcct tgtgcttgtg catcctctgt 60  
gttgctgcag aggctgcagg gcaaaatgat acactcgctc tcaccgaatt ccgtcttcaa 120  
accgaccatc cacggctacc ctactcacca aactggacct ggcgcctaca ccctgttccg 180  
gcgcgtggtg ccgcgttga atgtcccca aacggtagag tattgggcct cactctccct 240  
tccctcaacc ttgcgggacc aattgatacc cttccacac taacctacct tcggcttctg 300  
acctccaaga aaaccggttt aacggtagca tttaacctct tttaaactgc acaagcctgg 360  
aactactgaa cctctcccg c aacgatttct 390

<210> 3468  
<211> 437  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220056b11d1

<400> 3468

aataataata aatagtgaat ccagtgtgca tatggacaaa ctgcataaga gtacttttga 60  
atattcaaca gtttaataca gatttacaac ggttgatgat tcccacattt gtgaaaaatg 120  
ggccttagaa gaaaaaaaca aaagaggaaa aaaaaacaca cggaaaacct gtgtagggca 180  
agatattggc gccctctatc aggaagttca aatactgaga agggttatat aatgtagtat 240  
aatatgaatg ataaccctg accggcactt ggatattctg gcagaaactt tgaaaaataaa 300  
tgagctggaa gaggtaaatt ttggagaagg ggaaaataca gaattatttc tcaggaatgt 360  
catacaaaaa caacaactac taagctcaaa agcccaaaat agcagactga agaataggag 420  
ccagatacac ccacgtt 437

<210> 3469  
<211> 197  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056b12d1  
<400> 3469

gaaacgagag ggtaccgttg cgatttggac tggctgcttc agatgactat gatggatgca 60  
accgttccat tcagatatac atcggttgat gatttcgaca ctctgtaa atgtgccctc 120  
gaagaacatc gcgaaggatg aaaatgatac acacagggac cactgcgtgg gcaagagatt 180  
ggcgccctct attggga 197

<210> 3470  
<211> 516  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056c01a1  
<400> 3470

acgaaattga aagaatttac caagaatttc cctcctgaac tcaaagggtt ggccatcaat 60  
aacagtgagg ccatacgtac agcccataat agctttgcta ggccagaacc ttttgttcct 120  
gaagagcaaa aggttgctac cagagatgat gatgtttacc acttcataag ctatctacct 180  
gttgatgggg tactgtatga gcttgatgga ttaaaggagg gtcccatcag ccttggtcag 240  
tgctctggtg ggcaaggatg tattgaatgg ttgaagatag tgcagcctgt gatccaggaa 300

cg catt gaaa ggt att ccca aag tga gata ag att caatc tct tggc agt cat caa gaac 360  
 ag gaa ag agt tgt ata cagc tg agct gaag ga acttc aga ag ag gagg ga ggc attttg 420  
 cag cagct ag cag cat caaa gtc agac aga ct ggtc gaca at agc agttt tg aggc actg 480  
 aaca atttct tctct gaagt gaatgctggg attgaa 516

<210> 3471  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056c01d1  
 <400> 3471

aag tga agaa ccccc atttt ttgtctgata acacaaaaca gttacaaatt caactagtaa 60  
 gggataagac gactaaaatg gactcaaac gcaaagggtg tataaatcac aaatcataat 120  
 aaaacacact ggaacaagca aagcttg tca aaagggtgcaa tagaatttta tgccacaact 180  
 tggaaaattg agagtttggg accataacta cccaagttga ccatcccaca aactaggata 240  
 ttttccatat gagtaactaa ggcttcaggg gtgctgctcc caccagaaag cctactattt 300  
 tatataatca ttttagttgg cagggtttt gaacacatca agacccatct cagtaggatac 360  
 agttgcttgc aactctactt gaattccatc cagctccctc ttgaatctgt ctttggagct 420  
 tgcataaatc atcttgctcc tcacccttga tgtgtcaggg gaccacgcaa tgaaaaaat 480  
 tctgctttta gggaca 496

<210> 3472  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056c02a1  
 <400> 3472

gcaaccacat tttgcttctt actccttcat gttattaaat ttccacaaa gaacatgcag 60  
 tatcctgtgg tagatctcct atcaacaatt gatcctacat agtcagcatc agtatatact 120  
 ttcatggata aattttctcc tttttaaaca acaatctctt tcttggagaa gacttcaagt 180  
 actgaatgat ccattcaac caagaatgtc aagaagacca tggaaggag tgggtcagaa 240

tgctgcaata atacagaggt ccattcttgg acaagaaagc atgtcaagaa gaccatatta 300  
 gggagtgggt caaaatgctg cgataatata gaggttcatt cttggacaag aaaggtgcag 360  
 ttagcaacct ttgggggttg caccaaggga gaaacaaaag aggatcactt tgtttgtgtg 420  
 ttacatcaag catgagaaac agaacaatac aatgaagtgg tgaatgagag caagataggg 480  
 agattatcag aattcttgaa gctagagaag aagcttgttt tctt 524

<210> 3473  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056c02d1

<400> 3473

aaggaaaaac agcagtcac taatattatt ggtcaatgaa gattcaatta ttcaaccctg 60  
 atatthttgta ggatcatacc ggtggaaatg gcaagtctag taaaagaaag aagccaccac 120  
 aatthtttaga atccaagtct ggttggactg caatgaaatg caaacctcca caagctthttt 180  
 tagcagcttc ccaagcttca gcttcactag ttgtctcagg agthtttctta tagggagaat 240  
 agatthtcccg ggtagaaatt cccgcaaaaa gaatcaggcg agcccgagga gcatccgtht 300  
 ccaccgggga aacctccaat cctthttatca aagctgcc 338

<210> 3474  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056c03a1

<400> 3474

aaaacttatc agagtcaacc acggatgaag agttgatgat aaatthttgga gaatatggta 60  
 ccattactag tgctthtaata atgagagatg ctgatggtaa atcaaggtgt thttggcttht 120  
 tcaatthttga aaaccagac gatgctgcca aagctgttga gggacttaat gggaagaaat 180  
 ttgatgataa ggaatggat gttggaaaag cccagaaaaa atctgagcgt gaacaagaac 240  
 tgaaaggacg atthtgagcag agcataaagg aagctgctga caaatatcca ggtthtgaact 300  
 tgtatctcaa gaacttgat gatacaatca gtgatgaaaa acttaaggaa atgtthtgccg 360

actatggtac aataacttct tgcaaggtta tgcg

394

<210> 3475  
<211> 358  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056c03d1  
  
<400> 3475

actagcacat cattttcaat ctactacat caaaaaaccc aacggcacia tacaacaac 60  
aggagatgga tataagatta cagagatagc tgctactgca tatagtaagc taaataaaag 120  
gaaaatacaa agtcttgcta ccaaaactac tgcaaactat gatgctcacc acaggccaaa 180  
tcctgcaact atgaaagcat tatcttatat atatattgta caaaccaagc atcacggaac 240  
atttgatcta ggcaatcagt acctcggttct accgtctccc tccggttatca catccttgaa 300  
ggatccatta ctgggaatca tcggcaacac atgctcctga tgtggcacia tgacatca 358

<210> 3476  
<211> 339  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056c04a1  
  
<400> 3476

gaggaaataa tcttttagctc ctacttgctc caactccgat agaaaaaata tattacgaaa 60  
aagctcatct attcagagtt tagacgttgc gagtttgatg agatcctttc gaagaatttt 120  
gccagatgga tctttgggta tggagtcgga caagagagga gataatcttt agtcctttt 180  
ttgctgtaat tatctggctt gcttactttt gctgctttta tattatctgt tctttgttca 240  
acagtctatt gtaatttgta gagaacaaag tgctgtgagt acaccttata ggctataaga 300  
ttgtctcttt gtgagactat aaattacatt tacttaaat 339

<210> 3477  
<211> 405  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<223> Clone ID: jC-gmf102220056c04d1

<400> 3477

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cataggcata ttacagatta cagagtcaag cttatttatt gatttcattt aaaattacta 120  
aggaattact tctccatcca gaaacgggtt aaagtgggtg gaaaacgtct tcacctttgc 180  
tttgagttcc ctcagtcttc ttaaattctt catccatata ctgtaacttg agttcttagc 240  
aagaacatct tcagacacct ccttattatc aataagttcc atagcatact tctcaaattt 300  
ctcaatgtta tcccacagca cagccaactt tgttgtgtca ctctcacttc taacactatt 360  
cagccagtcc cttgcttctt ncaccctttg ccaaagcat gaatc 405

<210> 3478

<211> 427

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056c05a1

<400> 3478

ggcactatga tgccagtgcc ccgatcgag atcagggcat tcgttgacag catcacctgt 60  
ggcatggtaa gtgatgatgt agaaaattaa cacaagctcc aaaagccctc tcacccttta 120  
ggggaattta cccctgggtc ttggccctct tcataccaag gctgttggtg aagggtgaaa 180  
cagaaccaga catggggagaa ccttctctgc gaagagtgcc attcagcatt gctaactccc 240  
gaagttgctg cttctttagt aaaccttgga ttcactctga aagataaacc tttaaacaat 300  
cagaccaaca aagtcccat taagttgagt accacaacca atctcaatca acctaacaag 360  
aacataccac cggtttgagc aaatcttcaa gtatgtcacg tgcttgcatc atacgagcat 420  
ctactat 427

<210> 3479

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056c05d1

<400> 3479

aaaagcaacc gtaaatttac atacatactg aatctcaagt taaatagttc aaatacaagc 60  
 atgcatgaaa ttatacaatc acatgacagg gtgacaagtc cgcacattc tatagatgcg 120  
 gtaactatatt gtgattcaca ctattaattg ccaaaaagtg gggtttaata acctgcgttt 180  
 gaatcaggaa caaccaaacc atcttcttac agagaaataa ccagttgggt gcggatctgc 240  
 gtcagactct gatttttttt gaggaagctg cttaaaaaat gctttcacag cttctgtcac 300  
 tccatcctaa ttttccatgg cctttgcagg ttacattgca cgttccttta ccttgggatc 360  
 catcataagt tttattgcat caaccaactt gggaagtga aactcataca ctgggatatg 420  
 ttgaggacca gctactctag catgta 446

<210> 3480  
 <211> 544  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220056c06a1  
 <400> 3480

gacgaggaaa gggttctgaa gatgcacact ctcaacacct cgtattgtta cagtggggtc 60  
 aaatgggact ctataaatct cgagcatcct tcaacttttg agacgctggc gatggagccg 120  
 gagttgaaga atgcggtgat tgaggacttg gataggttcg tgaagaggaa ggagttttat 180  
 aagaggggtg ggagggcgtg gaaacgtggc tacttgctct atggccctcc tggtagctggc 240  
 aagtctagct tgatagctgc tatggccaat tacttgaagt ttgacatctt tgacctcaa 300  
 cttgggaaca tagtaaggga ttctgacctc aggaaactgc ttctggcgac tgctaataga 360  
 tccatttttg tcattgaaga cattgattgc agtgtggatc tgccagagcg tcgccatggt 420  
 gatcatggac gtaaacaacc tgacgtacag ttgacctgt ctggattact gaacttcata 480  
 gacgggttat ggtctagttg tggagacgag agaatcatca tattcaccac caaccacaag 540  
 gaga 544

<210> 3481  
 <211> 559  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220056c06d1

<400> 3481

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gatattctat atctttttatc ttaattaata ttgaccctt ccttataatg tggttatagtt 120  
ttcttttattt ttaggaactt atccattcct tttttaatgt gcccgacaat ccgaaagaat 180  
tctgggggag ggggtcatttc gtttttgatc tagaataaat agagcttcaa gaaatgagag 240  
aattaagaat acccacgaga aacactaatc caatccataa tgatgtaccg gaaaatacaa 300  
catttttggtt attcgaccaa ccttcaggag aagcaaatac aacaggtaca ctaatcaata 360  
aaataaatga aatagcaatt aatgcaaaaa cagctaattg gaaagcaata gtcatgtttc 420  
taatcctcca atttaccac anaagaactt taccatttga tcccccaacc cttgatccct 480  
ttattgacaa aaaatttata ataaaaaacg cagaaggttt atcatgaatt cattgatttt 540  
tttactatta tcaaccttt 559

<210> 3482

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056c07a1

<400> 3482

gtccagcaca acgatgggaa aaagatcata gatcctgaaa gccagaaaac cttgtgttca 60  
tgcttaaaag aagagatgct tcatccgttg cgggtgacga tagtgaaccg ggggtccagac 120  
acagaacttc tgggtgctaa ttctgtggag ctgagtggaa aggggagacc ccgtgtattc 180  
tatgatgtta cgttgacttt aaaagcggtg ggagtaggca ttttctcggc tgaagttggt 240  
agacattcaa cacaagaacg tcaatgggaa gtgtatacat ttttgttgga ggaaagccgt 300  
gactttccat tgaccagaag ccaagcaaga actcagattg ttgacaaagt tagaagaaca 360  
ctgatgggct gggttatctgg ttcagtatca aatgaaaaag cactttccgt tcagttttta 420  
tgttaaatat caatttggtt tgccgtttga atatgggtta gttagcaggg tatctaatta 480  
acg 483

<210> 3483

<211> 510

<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056c07d1  
  
<400> 3483

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ataaccatat agttctgtaa cgttgttcag atagtcgtaa ataccgaaag gaaacattgt 120  
ctggtaatgc taggtaattg aattacaaca tagaagtact ttagcataga cgacacataa 180  
taatggcacc aacaaacagt tctaaaataa gctactaaac taccatcttc aattggagtc 240  
actatcatcc caagccaact atttttttat tatcaactct catacttttt tataagcgcc 300  
taaagtagaa acatatctca tctccaacac tgaaagcatt gtctctcaaa tattggtacc 360  
aaggttcagc aacacattgt aggccttttt gagcatcgtg catggtacta aaatctgaca 420  
gaccaagtct ttcccaataa ttcatacaca tagggaggga aaaccttgat ctcatcgcca 480  
cttgcaatct actcttggag acattgatcg 510

<210> 3484  
<211> 491  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056c08a1  
  
<400> 3484

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gaaagtgctg atcagttaat ggactttgat gctgccaccc tcatttcgaa catctgcatg 120  
atgccagaac tatatgatat tagtgctcgc cgtttgcaat ggaggctatt gccagacgat 180  
gctttgaaat tgacctcagt cgtgtgttca agcgttcatt ctctcacttt ggaactgtca 240  
gatgagcttc ttccgctatt tctctcatgg tttgtaaatg tggagaattt acggctagaa 300  
gggagtaaat gcacagtcac tcccgaatgc atcaaagaat gccgcttttt atctatcctt 360  
attttgagtg gttgcatcg tcttcaagaa attagaggga ttcttccaaa cttggaaaga 420  
ttcgccgcaa cagaatcccc agacttgact tcctcaagca taagcatgtt gctgaatcag 480  
gaactgcatg a 491

<210> 3485  
<211> 454  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056c08d1

<400> 3485

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atacagagaa ataacaacgc aacacaattt aaagctatcc aatacaaate tctcatacaa 120  
gaggagaggg gcatataagt ggagccctca tcaccctcga tcttattctt aatattaata 180  
atgctactca tatactagtg agtagtttcc ggtttctcgc gtccatgact ttctcttcaa 240  
accttgatgg tagcgcagac ggtggaggtg ctgatcttgt aggggatgga gactccgcat 300  
ttgccgggga gcgaggcggc gttgttggtt ttgaagccgg agatttggct ggcggccgac 360  
ttgaggcagg tgcacgcgct ctggcggacg gcggtggtct tggcggcggc attgaggctc 420  
ttcactcacg tgcagcatgc cgacggcggc gttc 454

<210> 3486  
<211> 486  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056c09a1

<400> 3486

caaaatgact caagcccaga ttcaaccagt taaacttgga acccaaggct ttgaggtttc 60  
aaaattggga ttcggatgta tgggccttac tggagcgtac aatgaccctc tccaagaaca 120  
ggatggcata tctgttatca agtatgcgtt cagtaaggga atcacatttt ttgatactgc 180  
ggatgtttat ggagccaatg ctaatgaact tttggttgga aaggctttga agcagctgcc 240  
cagagaaaag attcagatag ccacaaaatt tggatttgct tcacgagggt ttcttgatat 300  
gaagatcaag ggttcgcctg aatatgtgcg atcatgctgt gaagctagct tgaagcgtct 360  
tgatgttgaa tacattgatc tctattatca gcacagagtg gacacatctg tacctataga 420  
ggaaacagtg ggtgaactta agaaattggt cgaagagggt aaagtcaa atattggatt 480  
atctga 486

<210> 3487  
<211> 311  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056c10a1

<400> 3487

attgctatat taagcttact tgtacttaca ccacttgctg aacctgtgat cttcattaca 60  
aaacaagggg tctttaagac tgggtccaaca attagaggac tatagaaagc tacatgatgc 120  
aatgtaactg agcttataat agcattataa gacgtttcac gtgacaaaag cgcatatgac 180  
gcatgtccat agcactaaca tgatggatca aaccttaca gtctgaaact gaacaagttt 240  
gctgacatga ccaaccatga atctatgagt acctatgctg gctcaaaggc taatcaccat 300  
atgaggactc a 311

<210> 3488  
<211> 407  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056c10d1

<400> 3488

aaaacaacat agttcaatat tgccattcag tttaggtccc taacaggggc agtgaagcat 60  
aaaagccatg cttccaaatt aaaaccccat ggggactggg acccatttga accttaaacc 120  
caacaaaaaa cagaccccag gaacaagaat ctgaagtga ttttagtagt cttcatcctt 180  
tttcgggccc ttaccaaact tagcaccac tttttaaaaa tccttttgaa gggctgcaag 240  
ggccttacgg gcttcaaaaa attcacctt ttccataccc taaccacgt accaggggac 300  
aaaagcacc ttggcataca tgagatccaa cttgggatca atgcgggcaa acacttgaac 360  
cacactgggg gagtttgaaa tcatgcaaac tgcccctcga gcccaat 407

<210> 3489  
<211> 484  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056c11a1

<400> 3489

gcacaacaca cccaacaagg acctcccaca gagcgcgtct taatacaacg ctcttctctg 60  
aagaacccccg catttcttgt cgtctctctt cttctcttgc gcttcttcga tgcttcgac 120  
ttcgtcgcgg aaaatgagag agtgcatttc aatgcacatt ggccagaccg ggattcacgt 180  
tggaaacgcc tgctgggagc tttactgcct agaacacggc attcaggcct gatgggctga 240  
tgccatgcga caagaccgat ggtggagggtg atgatgctag caacaccttc gttcagagaa 300  
actggggcat gaaagcacgt gccccgtgcg attcttgcag atcttgagcc cactgcgaat 360  
gatgaggtta ggactgggac ataccgacaa ctattccatc ctgagcagct cattagtgga 420  
aaggaggatg cagcaaacaa ctttgcccgt ggccactata ccacggaag ggagatcgct 480  
gagc 484

<210> 3490  
<211> 221  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056c12a1

<400> 3490

ggcaaagtat ctataaaata acaaaggagc ttttcaactt ccttcctata tgttttattt 60  
tgttctttttt attcaggagg tgaaccgatg taggtgagca tttattaact gtaagatatg 120  
ggaagatcaa atttaaataa agtgatttct ggcggggcat gtaaataatg ccctagggag 180  
tttgtaaaaa aaaaaaataa attaaaaaaa tatatataat t 221

<210> 3491  
<211> 332  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056c12d1

<400> 3491

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aatgaaaaat aaagaacaat acaaaacatt aacacagctc ttattgtaag ctgtatcaaa 120  
accttttccc aattaacaca gctttgtttg acaatttttg ctatggccga actgtaagat 180  
gatgtaaca atttttgcta caacaggatt gtaataacta ggttgctcca tgtaatgtaa 240

ctccacaaca aagcttatgc atggaattaa tcaactgcta ctggctgcat gttttcagct 300  
tcttgacgaa gctcttgga caggacagat ga 332

<210> 3492  
<211> 440  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056d01d1  
  
<400> 3492

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aatcttcaga atccaagtct ggttggactg caatgaaatg caaaccttca caagcttttt 180  
tagcagcttc ccaagcttta gcttcactag ttgtctcagg agttttctta taggtagaat 240  
agatataccg agtagaaatt ccagcagaaa gaatcaggcg agcacgagga gcatccgctt 300  
ccaccgggga aacctccaat ccatttatca aagctgcca tgctgtagca ttagaagacg 360  
caacggacag tccagggatc aatgtcttgt catcaatgtc aagacccaat aattcaagat 420  
ctagcccaga accacaaaact 440

<210> 3493  
<211> 508  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220056d02a1  
  
<400> 3493

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acaatggagg tttcttctga tgatggcacc ccaacagttg aagactgaaa ctgttgcttg 120  
caagtatgac atgctatttc cataacagtg gaacctatct tcttgatggc ttgctttctc 180  
agctcttcag cccttgaaag ttcagcttgt gcttggttcc ttatcctttt ggcattctca 240  
aactcaagtt cagctatctc aatttgacgt ttggcctctc ttctagcctc ttctgcataa 300  
gccttttctg caatggccaa cttgagttcc tctcctgcaa actcctgcaa ccttgccact 360

tccaacgtgg aatagtcact cacattgtta ttattattat tattattcct ttcaggtggg 420  
 ctccatgtg cttctgaaca tgctctctct ggtgggtcac tactatntcc tttgtcgata 480  
 ctacatgagc ctattgaaag tttcaagc 508

<210> 3494  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056d02d1  
 <400> 3494

gccagtgaag gataatTTTT aggaataagt aggctatact tcaacaagga gtttatatag 60  
 taagaaaggt acatccttgg taaaagcata aagcaaagct aatctaattg cacacacaac 120  
 catgagttca tgaaatccag tcattagtta cattcgttgt tgggtgtgaca atatcttagt 180  
 aaagtactca aaatataaat taatagatat aataaagtat ctaaatgatg gttcccccat 240  
 cagacaaaag accagttcat gaatacgaag gcaaggcagt gattggaatc atcatcatcg 300  
 agaactttcc atgcaatggc ctgctcataa gacactggtc gattcatact tgatacacat 360  
 attcctgctg gcagatatgc aaatccctgt tgcattatct tggagaactc aatgc 415

<210> 3495  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056d03a1  
 <400> 3495

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 cctgtactcg cttgcatact ctctctgttc tttctataca aagatctgtc aattaatata 120  
 ttatctttga tcatatatag tattagtata gaccacttga ttaaaccacc tgtgtcgcat 180  
 attctgaatc ctatcatctt gtggctttga tgtctagagc attggaacat gattacataa 240  
 gcgatggcag agaatccgtc aatggatggt caaaactcat tatcactgaa ctgcaatgag 300  
 acagagctga ggcttggcct ccctgggttc gagtcttcag agagaaaatc acgttctgca 360  
 ctctgtcttt ctggcaaata gtttcagaac aacaataaca atgtttgtac cttgaacgct 420

ggggccaaga ggggcttctc tgatgccata gacacc

456

<210> 3496  
<211> 515  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220056d04a1  
  
<400> 3496

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cccccgtttt tttcttttct gggccttttc caattctcaa tggagggtcc agaaatggaa 120  
ggcaagaccg aaagtcatgt gacatcggca gaagcctttg tggaaggggg ggttcaagaa 180  
gcttgatgat atgcttgcat catatgcctt gaggatTTTT gcaaaagtga tcttgccact 240  
gtcactaatt gcaagcatga gttccacctg cagtgcattc ttgaatgggt tcagagaagc 300  
tcccaatgtc ctatgtgttg gcaacctatc agcttgaggg atactacaag tcaagaactg 360  
cttgaggcag tagagctgga aaggagcttg agggataccc catctagaaa tgctgcgatt 420  
tttcatcatc cagcacttgg tgattttgaa tcgcagcatt tacccatggc tatgaatgaa 480  
gctgatattg aagagcgaat aatcaacatt tgact 515

<210> 3497  
<211> 160  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220056d04d1  
  
<400> 3497

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cctcatctga cgatctgttc aatgctgcc acaaaccgc 160

<210> 3498  
<211> 533  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220056d05a1

<400> 3498

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gtgatctgaa gccgtgatgt atgagatcca cctagctct acactgctta tcacgctgaa 120  
ggggaaaaaa gcttcgggac taggcacgac ctatacccat gataaacagt gacacatcat 180  
tcagacaaaa gcattaacag cagcatacaa agctgactct tactctgtca tctctctctc 240  
tgtctgtctc tgtctcaagc cctagtcag agtggtgtct ctctctctct ctctctctct 300  
gattctgcaa ttgtggtgac tctattgtcc attcacttct ttcattaaaa tcatcttcat 360  
aacataaatt gtgagccacc ttgccctat taatgatgct ttctgcctct ctttaatttcc 420  
acacacaatt tgagcttagg agctctttgc ctttttaaat ttgcgtttct ttgttctgag 480  
tggaccactc aaattgtact cttgcgccta actggtgcat gcaatcttat att 533

<210> 3499

<211> 576

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056d05d1

<400> 3499

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atttttaaag atcatatttt gtttttcgtt tgacagtcac agacaatcaa aggcaactgta 120  
atgagcatac agcccatatg gctgattact attatttaca aagaaacaga tcaagagtca 180  
ttacaagttt tgaaaccctc acaactgtaa ccaggataat tgtgtaatac ttgcttttcg 240  
acctttcttc acaaattcaa tcataatagt caacgaaaac aagtatttta agagagtagt 300  
tatacatgaa aatttttagc tagcaaaatt tgcagagaag tcaggctcag ggggttactg 360  
tagtttctact aactgactgg cagattcgac atggcaattg agaaaaacac ttgcttaagg 420  
tgtgcgagc aaactttgac gcttacatgg cagcagcct attgtatgaa ctgtcaccgg 480  
caatttcag agctccgtct gactcatctt ctttttgacg aagcttcata attttcttat 540  
tggaataccg acgccatgct gcttgaataa agcatg 576

<210> 3500

<211> 389

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220056d06a1

<400> 3500

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aatactagta ctataacata gacgattaga cggtttggct tccctcaagg ctccctttcc 180  
ggccacccca tttctctctt ccagaccag aacctctatt cttccatccc aagccagttt 240  
tcgtaaaaga agctcctttt tctccttttc tgttcatgcc caggtggagt ctgatgatgg 300  
ttcagctgta gtagccacat ctggtgaatc tgtgacagag gttctgaaaa ttaaggagtg 360  
ggaggtggga atgttccaaa atgaggttg 389

<210> 3501

<211> 505

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220056d06d1

<400> 3501

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atttgtgagg aagattatct aaacctatac agggatactt ctagctgaga atcttcgttt 180  
tgctgtcaaa actgccattc ccattttcag tgaattgcca aaactgtgaa gaaatttatt 240  
gccggtattg tacgacggaa cattgagcaa gatactcaat taaccatcac cgtaaagcat 300  
tcacgaatgc cgtcaatgaa tcaacatctc tcttttccga agggactta attggttgag 360  
aagagtgttt gnggaagagt agtattgtgg gggaagcttc ccaactgcag ttcagtcttt 420  
gcatattcct tctggtctcc atacgctctg aattttgcaa ctttactcc tgaccagct 480  
aacttttctg ccaaataaac atatg 505

<210> 3502

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056d07a1

<400> 3502

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gaaagtgctg atcagttaat ggactttgat gctgccaccc tcatttcgaa catctgcatg 120  
atgccagaac tatatgatat tagtgctcgc cgtttgcaat ggaggctatt gccagacgat 180  
gctttgaaat tgacctcagt cgtgtgttca agcgttcatt ctctcacttt ggaactgtca 240  
gatgagcttc ttccgctatt tctctcatgg tttgtaaatg tggagaatth acggctagaa 300  
gggagtaaht gcacagtcath tcccgaatgc atcaaagaath gccgctthth atctatcctt 360  
atthttgagtg gttgcgathg tcttcaagaa attagaggga ttcttccaaa cttggaaaga 420  
ttcgccgcaa cagaatcccc agacttgact tcttcaagca taagcatgth gctgaathg 480  
gaactgcatg 490

<210> 3503

<211> 330

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056d07d1

<400> 3503

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thththtgagc aatgcgtaaa cagattthcat gaatgtaaaa caagccttgt taactacagth 120  
gaagatacgt tctthtatac acctgaccth ccatctthac tgtcactthta acacgtgact 180  
atgggtthatt acaagcactc atacgagthg thtctctgag ththtagctat ggctthcatac 240  
catgggcccga ththtaththg agggagctcc agacactthac gtcctgtthta agctgaactg 300  
aatcattaag atgagcctgt thtctthtacc 330

<210> 3504

<211> 486

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056d08a1

<400> 3504

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aaacccacga cctcaacttc gcttccaggc ctctcttcgt gggcccgaga aagctctctt 120  
acgacgggtt ggacatgggc ttcgcaccgt acggcccgtc ctggagagaa atgaagaaac 180  
tctgcatcgt tcacctcttc agcgcgcaac gcgttcggtc ctttcgacca attcgagaga 240  
acgagggttg aaaaatgggt ccgaaactgt cggaacacga agcttccggt actgtcgtga 300  
acttgaccga aactttgatg tctttcacga actctttgat atgcagaatc gcgttgggga 360  
aaagttacgg ttgtgagtac gaggaagtag ttgttgatga ggtactggga aaccggagga 420  
gcaggttgca ggttctgctc aacgaggctc aagcgttgct ttcggagttt ttcttttcgg 480  
attatt 486

<210> 3505  
<211> 286  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056d08d1

<400> 3505

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atgcatacta ctgtgaacac atgacccttt atccaccaca cctacaatgt tatgtggcac 120  
tataacagga gattattggc tggccaacc tcacaaacga tttgattcct agagataagg 180  
atagggttta ataacatggg ccaattaagc tgccacggaa ctccatagac ttcagctcaa 240  
gattagctga attcaccgat tgaggagggc ctgattctta tacctc 286

<210> 3506  
<211> 384  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056d09a1

<400> 3506

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aaaaatggga tctggaagac tgggccttcc tggagcggac aatgaccctc tacatgaaca 120  
agagggctct acgcggataa agcatgctgt tagccttggc aatcacattt gttgctactg 180

cagatgatta tggagcccat gcaaataaac aagcgtcagg aaagggttttg aaacatgtgt 240  
 aactgataa gagttagata gccactgaaa tgggctttgc tatgctaggt agacctgata 300  
 tgaagatcaa acttatgctg gaatctgtac tatcatgctg cgaagctagc ttgaagcgta 360  
 attgatgatg aatacataga tctt 384

<210> 3507  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056d09d1

<400> 3507

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 taaaccatta gaaaaggcaa cataaccact cacagtttat taaggactat gaaaattgac 120  
 acaatttttc gacaacatat caattatgta ctctaacagg aacgtggctc taagagaaga 180  
 gcacactgga aactgatgtt cacatacata accatgacca tacactatct aatcgtaac 240  
 ttgaaacttt caagatcgat aaataaccat caaactctga attagtgcct ttcagttcaa 300  
 gtccctttta cttaacttta taatgggcct agtctataaa agaacatatg ctaataacta 360  
 gctgccattg cttcaacact cctggccatc tgcagtgtct tgattcttct tgagacgggt 420  
 agaaccagct tctttcgtga tg 442

<210> 3508  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056d10a1

<400> 3508

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 atgagagtcc aaagaagatg atttgagacc acatacttca gccctatga gaaaactcct 180  
 ttatattatt gatagtgttc ctaggttgca tgatcaaata aactctctgt ,ctcatgataa 240  
 agaaaagctg caatcaatcc ttgaaactag ggatcttgac attaaggatc tgaaggatga 300

agtcaaacaa ctcaatagaa tctgtgaaga ctctaaaatg atcaagaatg aattgtctga 360  
gctcacctat gtattagaaa aaattatgga tattttggga gctggtgaat gggttgtaga 420  
taggaaatct aaaggttcga aggaattaat accagcattg gagaagcata tcattgcca 479

<210> 3509  
<211> 494  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056d10d1  
  
<400> 3509

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttttgg 120  
gttgaaaaac agcctttttt tttcaagacc cgttttttta aaccgcgaaa cataatcatt 180  
accaacacaaa aaccacaaatt catttgaaca acccaacaca aaacttactg gggcgtccat 240  
ggttttctag ccaggaacc atggccccct taaaccaagt ttttagcaag gttttagtatt 300  
gaacaacca tgggggcaaa aagaccctta attggaaata aagggcctta cccaagctag 360  
caaacttttg ttacggggaa tgggggacaa attattcttc cccgggttct gaatctgcat 420  
tttgagagccc acccatgaaa gggggggcct tttccaaaa cccaaagggt ttggtatcac 480  
ccttaaggcc cttt 494

<210> 3510  
<211> 475  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056d11a1  
  
<400> 3510

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ctctcttttg accattcaaa ttggctgcta tacacgatag tttcttatga tctagactct 120  
aggcttagtt aggcttttct gttatcgcca tggatttcga gagtagaagg cttcatttgc 180  
tcatctccgt tgttgccatc gttgctctta gttcacagc tgaaaaatgc aggggaacttg 240  
ttggggagga ggggtcatct cagagtggaa agtttacgat cttaaattgc ttcgatatgg 300

gttctggaac tgtagcatgt gctgtcaagg aaggtgtgaa gctctatattt tacaatatta 360  
 ggtcttctca tgctgaaaga gcaaggagcc aagcaattga gtctgccctt gttgatgctg 420  
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<210> 3511  
 <211> 530  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056d11d1  
 <400> 3511

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 tacaacatag ataaggaaac cacaaactct ttttaattag atagagatac tgttggaat 180  
 tcctttgaaa gtcaaccctt cctcacttga acgatggagc aaagtgtatg gcagctgaac 240  
 tggcccagtc cggtttctca gacttgatc actgttcctt gcattgattt ttgcttcaat 300  
 tccagtcagt ttgcttccaa accttttgaa agcttctaata gccttcttat cagtagtcca 360  
 atttgagtc tccctctctc caaggtatat ctcatcagaa gcatgccttg acaatatctc 420  
 tatcactgaa agatcaataa ggggtctcaa cttgggtgtg attgttctca gataagcctt 480  
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<210> 3512  
 <211> 486  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056d12a1  
 <400> 3512

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 atctttgaca tcattggcca ttttgcataa cccaatcccc acacagtttt gccaaagaca 120  
 ccaattattt gcaaaccatc agaaaatgcc attgagttgg ccctcaagat agccaacctt 180  
 aatccacaaa gaactttggt ctttgaggat agtgtccgca acacacaagc tggaaaacgt 240  
 gtgggtcttc aactgtgct ggttgaaaaa tctcagagaa ttaaaggagc agattatgca 300

ttagaaagca tccacaacct tagggaggca gtgccagaac tatgggaaga tgacataaaa 360  
 tcagaagttg cttatcctgg caagcttgct gtggagacat ctgtgactgc ttagatcatt 420  
 gatgaacaaa aaaataaaat aaaaaataa gaaaaagaga gagaaagaga gaagtccttt 480  
 gtgaat 486

<210> 3513  
 <211> 190  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056d12d1  
 <400> 3513

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 tcaacaattg aaattacacc agcattttgt caaaattgga agtgtatgtt ctgatttctg 120  
 aagtccatga atggtatcta ccgtttttcc acctgaactc attggcatgg tgtactgcca 180  
 tggaacaac 190

<210> 3514  
 <211> 504  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056e01a1  
 <400> 3514

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 gacgacaact tcaagggcac ccggtgggcc gtctctctcg ccggttccaa tggttactgg 180  
 aattacagac atcaggctga tgtttgtcac gcctatcaaa tattgaggaa aggtggtctg 240  
 aaagaagaaa atattattgt ttttatgtat gatgacattg cattcaatgg ggaaaacca 300  
 aggctggag tcatcattaa caaccagat ggaggtgatg tttataaagg agttccaaag 360  
 gattacaccg gcgaagatgt tactgttgat aacttttttg ctgctttact tggaataaag 420  
 tcagcactga ctggtggcag tgggaagggt gtggacagtg gtctgatga tcatatattt 480  
 ggatactata ctgaccatgg aggt 504

<210> 3515  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220056e01d1  
  
 <400> 3515

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 atcacattga tagcctttac tcggggccta actcgtttaa aagccagatt tgcctcaatt 120  
 ggttggtctt tgccttccgc cttattcaaa ttagcttctg gtatttcaaa agtttgctgg 180  
 gctttttggg gaacaagggc actacccttt tccgatcat ttactaaaac agggatctca 240  
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 aaacgtattc tcaaaaaacc tatatttacg ggtggggcaa taggccatg atttgggaaa 360  
 actccaattt ggcccctatt aggagaaaaa atgatttccc tcaactccga atcccaaaca 420  
 attcgatggg ggggcaa 437

<210> 3516  
 <211> 547  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220056e02a1  
  
 <400> 3516

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 tatgggccag cttgggcatt cttcactcca gtacggggat aaagagttac tgccaaggag 120  
 ggtggttacc cttgatggta ttttcataaa ggacgtggca tgtggcggtg tacacacatg 180  
 ttctgtaact cagggaggag cactttatgc ctgggggtgt ggtcggctctg ggcagctagg 240  
 gcttgcccc caaactggat tattctcgtg tgttgctaata gactctcaga ctttttccg 300  
 aaacattcca gttttagtag ttcctaaagg tgtgcaactt gttgcatgtg ggtattctca 360  
 cacccttatt tctatgagtg atggtcgaat tcatggatgg ggttacaata attatggtca 420  
 ggcagcaaat gagaaatgta catatgcttg gtatccatca ccaattgact ggtgtgttgg 480

ngaggttctg aaactagctg ctgggtggtg tcattcagct gtgttgactg atgcttattc 540  
attaaaag 547

<210> 3517  
<211> 150  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220056e02d1

<400> 3517

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aagtaaaaac acattgactg gcgggtctcg tgtcttaacc acttaatata cacatgtacc 120  
taaaatgaat agctttcaca ttcttgctta 150

<210> 3518  
<211> 607  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220056e03a1

<400> 3518

ttcacatat ggaaagacag atacatcttc tggttctaaag gaggcaatgg aatacatagg 60  
attccttcat aaacaagtta agctgcttag tgctccatac cttgaaagtt caccagcagc 120  
aaagatgcag ggtatggagc catgcagcct gaggagtaga gggttatgtc ttgttcctgt 180  
gtcatttact attggagttg ctgagaccaa tgggtgcagat atctgggctc ccattaagac 240  
tactacttct cctaaatttg agaaggatgt ctcccaattt cattgaataa ttttctcacc 300  
tttacagcct aaaggttgct aaagttgcta aactagcatg aaaatgatta tgatcatata 360  
tctagatgga atcatagtag ctatatatat atatatataa tagttatatc attaaaaaaa 420  
aactctagtc aagaagctgt cccacacctc taagatttaa acgggtgatg gngctaagct 480  
tccaattagc catatgtgcc ccttactaat taattccatg tgggtgattat taagtgatat 540  
ttgaaaaatc tagttgtata atgattcatg tactgatagc ttaatggaag ccgttctagg 600  
atgggtgt 607

<210> 3519  
<211> 396  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056e03d1

<400> 3519

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atctgacccc ttccccgtgt cccacctacg tatataggat attttaagaa atgaacatct 120  
ctctgagtag tgggatccgg ggaaagaata ggaaagggtta tttctttata tttttgacca 180  
ggaacagggc ctaccacaag aatatttttt tttgtaggac gatagttttg aaaagacaga 240  
ttgcctatct tctctttaat ctcaggcgaa atacgatcgg ggggtgcaa ttcaaaacct 300  
tccggtaaaa taagaacagc cccacattc aaagctccct tttaccatt agcaagaact 360  
tgtttcactt gcatatcata aggaattcga acaact 396

<210> 3520  
<211> 288  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056e05a1

<400> 3520

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atccaagtac ccttttctta atgagtagac tagatgacag tacacagatt ctttcctttc 120  
actgcatgga acttggtaac ttagtaatat gttaggcggc gtttgggtgg tcttgctata 180  
tttactaggt tgagattctg tatcatttac aaagtccacg cttgcataga ttattatcat 240  
gtctacatgc taaatatgga cattttccta cataactcca cgcctcat 288

<210> 3521  
<211> 158  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056e05d1

<400> 3521

gaagttcacc acaaaacaac cagtgtgagt ttgtgtcagt attccattaa tatatgcaat 60

tgacaataaa tttccaattt gtttcgggca acatttgatg cccacaccta tcctttgaaa 120

tgttcccaaa caattctgta cacataatgc ccaggagc 158

<210> 3522

<211> 504

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220056e06a1

<400> 3522

gggatacaaa gcagcgggtg caacttcccg ctccgttgct ctaaataccta aactaaaata 60

aaaccctagc cagtggcccg tgatcaccat ggcatgaaa actgcagaag aacacgaagt 120

gggtatctcc tgcttcattt ccgaccttcg tggcttccgc ggaattttaa agcaaagtgg 180

acagagatgg agcagttggt caattgtcct cacttgatgc ccctctagag gagccagagg 240

aaaatcgaac caacacacac gacactgttg ttagttatgc ctctcagatt gaatctttca 300

agtctcttgc tgaggagtat gatgcaattc ttttgaaga atttattaat aagattaatg 360

ccggtggaga agatagtgtt tctcccattg ttctttctcc agattctgat aaatctcata 420

gaaaggcaat gcataacttc tntaaggaaa actntaagtt cctggtcact gatgtggtca 480

atggacccga tgcttcacgc aaat 504

<210> 3523

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220056e06d1

<400> 3523

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gcactaaata agaaataaat taaatcgaat taaatgaaa cctgatcctg atgtgttata 120

caaaaattta cgacttcttt ttccccccaa acttgtcttg tctccctttt aaccctttca 180

tttatatgcc aatgtgtgaa atatactata ctgaatattt cgtacacggt attataaact 240

atatgttcat attagcatga atctgcttga aaaaatctcc agtcttgagc agtatcatgg 300

caactggcgc catcccagca aggggtggttaa tctatgtagg aatctctaata atgtagaaac 360  
cgaagttatc aagttccacg aagggagcgg acacgatctt gaatcaagtt cctttcccaa 420  
tctgctatat cctcaaatgc atattctgga agattctcaa atgctncttt cacggatcat 480  
tct 483

<210> 3524  
<211> 473  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056e07a1  
<400> 3524

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cctcaccgga aagaccatca cccttgaggt ggaaagctct gacaccatcg acaacgtcaa 120  
ggccaagatc caggacaagg aaagaattcc cccggatcag caacgtctca tcttcgccgg 180  
aaagcagctc gaggacggcc gtaccctcgc cgactacaac atccagaagg agtcaaccct 240  
tcaccttgtc ctctgtctcc gtgggtggcat gcagatcttc gtcaagactc tcaactggcaa 300  
aaccataacc ctagaggctc aaagctctga caccattgac aacgtcaagg ccaagatcca 360  
ggacaaggag ggaatcccc cagaccagca acgtctcatc ttcgccggaa agcaacttga 420  
ggacggggcg accctcgccg actacaacat ccagaaggaa tcaacccttc acc 473

<210> 3525  
<211> 458  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056e07d1  
<400> 3525

gaattaaaaa ttctgatcgc atattaaatt cccaagtcgt attcaaatcc ttatcaataa 60  
aaccatgaag ccaaattaaa atatttctag tacacacca aaaattcttc aaaagaaact 120  
tccgggaatc tagcacgacc aaaatcataa attaataaaa ttctaacca tcgataatta 180  
aatttgatgg gaattatgat gtagcagtag cacacgtctc accattaaaa tcaaaatacc 240  
aggatcaaagt ttcaagtaac ttaggacaga acgtaaaaaa aaactagatt aaatgagtag 300

atagctcggg acattaagtc acttagcact tgacctcctt taaggcatat gcaaagtaca 360  
 ggaatgttgg atcagcagcg cgcctcttgt agtaggcaaa gaccaagcaa gcatcatcac 420  
 ccatgctctc accaacaaaa aattggaaat ctttaatc 458

<210> 3526  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056e09a1  
 <400> 3526

gcaggaacag ctatctccac ttgcgccctt ccgtacaaca ccatggctag ccagtgtgaa 60  
 tcaactcggt catgtgcaag gaaaaagctt tcaaataaggc tggcctttga gaatcattac 120  
 agccaagcac ttgatgataa attcggtttt ggcaattgct gatattagga actcagcacc 180  
 tgagaagggtg acaaatgggtg gtgggcatgc ccaattgcc aaggacccca tgaagctgcc 240  
 tcctgctagc ccctttgaca atttcctcaa ggctgctggg tgttagatta ggtggtttca 300  
 tgcttacatc tttctgctat gtatagttct aatgttaa atgttttcca gacaggagtt 360  
 tctagggtct gtatccttgt aaggactagt aggtagttcc agtattttga cttcagtgat 420  
 cagtgatata tataattgta gaatgacaat ttctctactg aattgttcaa gactttatgg 480  
 t 481

<210> 3527  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056e09d1  
 <400> 3527

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 aaacaatgaa aagcattatc tgacaagtat atttggtatg cgaccaccaa accagtaagt 120  
 tgacacatga atcattcttt cttttatata tacaagtga aaagaagaaa tatatgtaca 180  
 aagggttaagc tttttatgga cccctccaa ggggggtccac tgattttgtg aagggccaca 240  
 cagtacatat tgtgaaatta attaaaaagc ctcaagaaat gtcttctctt ctgctattca 300

aatttgatc aactgtggaa tgagcttcaa aaggaaagac aactcctgct gtgaaaattg 360  
aagctttgag tttccctgca ccttcccaca acccttaacc aaaccctctc cttgaccacc 420  
ctttggtggc tttatcatat ccgcaactgc ctcagttatt tcttgaacca aatccacaat 480  
tacct 485

<210> 3528  
<211> 487  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056e10a1

<400> 3528

ccttacttga tttcgctact ttcgtaacaa cagtgtgggt tatatatatg attcgtttta 60  
agctcaaggc tagctacatg gaggagaagg ataactttgc aatatactat gtggtggcac 120  
catgtgctat gttagcetta actcatcatc catcaacttc tcatcattta ttaaacagga 180  
tttccctgggc attctgtgta tatctagaag ctgtctcact cctgccccaa ctgcgggtca 240  
tgcagaacac caagattggt gagccattca cagctcacta cgtatttgca ctgggtgttg 300  
caagattcct gagctgtgct cattgggttc ttcagggtgt agatatccgt gggcatttgt 360  
tggtggcctt ggggtatggt ttatggccat caatggttct tatctcggaa attgtccaga 420  
ccttcattct agcagatttc tgttactatt atgtcaaaag tgtcttcggt ggacagcttg 480  
ttctacg 487

<210> 3529  
<211> 506  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056e10d1

<400> 3529

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aagtattaat ctgaaataaa taagaattgc tgcttctaact attataata attactacaa 120  
attctaataa ttactacaaa agggatatat gttagataaa atagattaat taatctattt 180  
cacaacaaaa taatgtatcc atagcacagt ttcgtcttat aatacctcgg gtgctaata 240

aactatttta gtgaaattta actgtctcaa ttcccgggcg attgcacaaa agattcgagt 300  
 tccttttggga tttccttctt gatcaatgac aactgcagca ttatcatcat actgaattat 360  
 tataccgttg ctacgtttga gttctttaca agtacgtaca attacagctc tgatcacttc 420  
 tgatctttct aagttcgtat ttggtactgc ttggttgatt acagcaacaa caatgtcacc 480  
 aatataagca tatcgtcgat tactag 506

<210> 3530  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056e11a1

<400> 3530

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 catttgcaag gaccagtaca agagcatgct cgacgccatc aaggaaacca aagccgcgat 120  
 tgctaataag gacatcatca cggctaagtt caagttcagt gctgatttgt cgttccaagc 180  
 ggcgtgcaag gacgcgtttg aagatgggaa aatcccgttc tttgaagact ccgacgcggt 240  
 ttacaacctg ggaggggaatt gcttggatat tatcgtgat atggagaaag ctgaggtcc 300  
 tcagaaaatg ccaccggtgc aacaaagtgc cccttctgca tttagcaacg tcacggaac 360  
 cgtctcataa atttttggtg acgaatccat ttttttacgt gaatgatgat ggaattgtca 420  
 agtgcagtat tgtgtcattt tctttttgtt ttcttttagt aaaacgaatg ttttgggtta 480  
 gggga 485

<210> 3531  
 <211> 231  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056e11d1

<400> 3531

ggcctaggat tctcggtcga cgagctcact agccgactag tcggccggcc gccctttttt 60  
 tttttttttt taatttaaaa cgactgaagt attgcacatc catatactct ataccctagc 120  
 aacgactgat ataaaaagcc tatatattgc gaacacccta ttaactgggc tttggaccag 180

ctattgcaaa cgacgcctgc actggcacct gttgcagagg cagaggccca c

231

<210> 3532

<211> 482

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056e12a1

<400> 3532

ggccatgcaa atgttaccga ccaccgcagc tatcttaacc ttaacactgg actacattga 60  
ctataataat gaccatgaca ttagagtgtt aatattcatt gatgcatcga ttgcagatac 120  
tgatcttaac gacatcctca cgattaagag cacgacacaa gatactgaac tcgcactaac 180  
tggtgttcaca gacatggatg caaatcgga gacgctggac gtggaagaac tgagccaacc 240  
gtaacggcta cgtacgagaa ggcaagtcta tgatctatga tctggacaaa gcgtcggctc 300  
taccataaaa tgctctggc gtcacgaaac tgtccagttt acgaaaatgg atatggtccc 360  
tagcgcta atgtccactc gtgaccatac catagaatac gtgaatgcta atgcgaatgg 420  
gaccgataat tatgacaggg agttggagga tgtaatagat aagcttattg gggagtgtga 480  
ta . 482

<210> 3533

<211> 512

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056f01a1

<400> 3533

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caagataagc gagaactgcc aagaagagat gatcagaatg atctccgtca acatttttcg 120  
gtgcctcccg ccggcgctgc acgaaaacac aggccaagaa cccaccgatc ccgaagagga 180  
ggaaccttcc ttggaccctt cttggcccca ccttcagctc gtctacgagc ttctcctcag 240  
atacgtggtt tctccgaca ccgatacgaa aatcgcgaaa cggtagatcg accactcctt 300  
tggttctcaag ttgctcgatt tggttgactc tgaggacca cgggagaggg agtatttgaa 360  
aaccatactg catcgatat acgggaaatt catggtgcat aggcccttta ttaggaaagc 420

tattaacaac attttttacc gctttatata tgagactgag aggcactctg gtattgggga 480  
gcttctggag attctgggca gcattattaa tg 512

<210> 3534  
<211> 471  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056f01d1  
  
<400> 3534

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gtagcaccga acatgacaga catgtcacca aggatgcatg ggttgacttt cagtatttat 120  
atatattaac acttctatca aatctgggag taatcataaa tagctgacac aatcgtgtct 180  
aaatgatatg gcaaccatta atcacaatgc ttaaacagat ttcacacgga gcaaatgaag 240  
aaacatctgg cataactcaag atagctcata gacttagctg atgtaaccct atagaagagg 300  
tggtgtgtgc gtagcctgct gccggaccct ggtctggatc tctgctgcat actgggtcaa 360  
tagatgagag ccttctgtcg gggcaggatc tgcaagattt ggctgaacaa gtaaggctcg 420  
gatgccaca agaatttgct taactgtgat ggctggtatg cagccactat c 471

<210> 3535  
<211> 545  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220056f02a1  
  
<400> 3535

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cctcacgggc ttgctccgcg acgtcgccgc caaatccct tcccgccgcg ccattctccgt 120  
cgccggaaaa ttcgacctca cccactcccg cctccatcaa ctggttgaat ccgcccgcgc 180  
ccgcttagtc gccgccgga tcaaaccg cgacgtcatc gctctcacct tccccaatac 240  
cgtcgagttt gttgtcttgt ttctagccgt cattcgagt cgcgccacag ccgcccgtt 300  
aaacgcggct tacacagccg aagagtttga gttttacttg tccgactccg agtccaagct 360  
tcttctaaca tcagcagaag gaaacaactc agctcaagcc gcagcttcaa aactcaacat 420

ccttcacagc acagcttcaa taacccaagc cgaagacaaa gaagccgagc tgagcctctc 480  
 attaagccac tccgagtcag agtcaattaa ctcggttgag tcacttcgaa acgatcccga 540  
 tgacg 545

<210> 3536  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056f02d1  
 <400> 3536

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 atgtgtttct ctaaaaaaaa attggactaa aagttcttag aaaatcttag acctctccca 120  
 atcagaatac acatagtccc tcagagaaaa cagaaattgc cagattgagt tccccaccga 180  
 aacagggata aagaaccaa gttaaactcag tactccaggt agccagccag gcacgagtag 240  
 tagtagtagt agtagtaact ttgattagag attataagcc attttcatgc tcaaagaaa 300  
 gcagttttca gtactaaata caatatgtaa gaagcaatga aaatccctcc tttagccaaa 360  
 aatttaaaaa ataaaataca attcccttcc tttcttttca caatatc 408

<210> 3537  
 <211> 544  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056f03a1  
 <400> 3537

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 acctacaaga gctgaagttg cagatgtttc tgaagcagtc agacaacgag ctgatgcttt 120  
 aatgctttct ggtgaatcag ccatgggcca gtaccctgac aaggccttaa ctgttttaag 180  
 gagtgtcagt ttgagaattg agagatggtg gagggaagaa aaacgctatg aagctatgtt 240  
 gctcccatca gttgggtctt atttttcaga aaagatatct gaagaaatct gcaattcagc 300  
 tgctaagatg gccataatt tagaggtgga tgcgcttttt gtgtacacaa agacagggca 360  
 catggcgtct ctattgtctc gttgccgtcc tgactgcca atctttgctt ttactaccac 420

ttcatctgtg cgtaggcgac tgaatcttca gtggggcttg atacctttcc gcctgagctt 480  
 cacagatgat atggagagca atctcaacag aaccttttca ttgctcaagg ccagaaatct 540  
 gatc 544

<210> 3538  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056f03d1  
 <400> 3538

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 ttttcttttt aatattactc ctaattaaat tcccaccaa aaatccaccc aaaaaagccc 120  
 acaccccccc gcaaacgggg ccaccgcaa accagcaca aaacaaaccc cccaaaaaaa 180  
 cccaccccc cgacaaaaaa caaaaaaggc gaaaccaccg aaaccgcccc caaggggcaa 240  
 cacacaaaaa acccccgggg ggccccgag gctcgccca actaaaaaac aaaaaaacg 300  
 ggcaccccaa cccccagca aaacacgacc aaccacaaa aaactccgc ccaaagagg 360  
 caagcgcccc caaaaaaggc gcgcggcaca aagccacca aaaaatcaa aaatgcccc 420  
 aaaaaccccc ggggcttaac c 441

<210> 3539  
 <211> 550  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220056f04a1  
 <400> 3539

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 ctacagcagt actctcaa atgggttgatc tatctttctt gccagcgat ttcctctttg 120  
 gcattgcttc ttcctcttac cagtatgaag gagcttaca gagtgacggc aaaggactga 180  
 gcaactggga taactacact cacggaccag gtagaagtgt aataatggat ggaagcaatg 240  
 gggatatcgc gattgatcat tatcatcgct acctggagga tatagattta atggaaactt 300

tgggagtaaa cagctaccgg ctatccctgt catgggcaag aattctacca aagggtagat 360  
 tcggagagcc caaccatgct ggtatcgagt tctataacag actaattgat gttctactac 420  
 tcaaagggat ccaacccttt gtaactctta gtcactatga cattccccaa gagcttgaag 480  
 acagatacgg gagttggcta atccccagtt acaggaagat tttgttntta tgccgaccta 540  
 tgtttaaaac 550

<210> 3540  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056f04d1

<400> 3540

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 cagaaattca atatcaatca atatatgggt gatattcatt cagtcacgcc aaaacttatt 120  
 attggctgca aataaatata aactttgaaa atctctctc agatagactg tctgaacaat 180  
 ttccttcttt ttcacatgat acgtagaaa aggagctctc ctctattcat aaactttgca 240  
 ttcctcatca gcagggtttg tctcgcagaa atcctccaat gggctctccac tccccgcttt 300  
 aggtgccccct ggccacttgc ttgtacttag atgtgccaaa tcgaccactc tttggctgta 360  
 accccattca ttgtcatacc aagcaaccac ttttaaccata tcctctccca tgaccatagt 420  
 caaggaggag tcaatagtag aggaaa 446

<210> 3541  
 <211> 159  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056f05a1

<400> 3541

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 taatgttatg ccagctcttt ttttcacatc agttttgaca ataagaagag agatagagag 120  
 gagagaaaaa tatgatataa gaagggtaat gcaatagag 159

<210> 3542

<211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220056f05d1

<400> 3542

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 ccaacaatcc accacagccc caactttctaa aatatgtcag aaatatggga ttcaaact 180  
 tgaagcttht tgcagactag cagcatattg tcgagcccat tggatcatagt gaataatttc 240  
 tttagatgac ggagatgcta ctaattcctt ttgatgttcc tgacaagtta gttccacaac 300  
 cttgaatata tccagataac taatcttht ttcaacaaac atttctacag ctttctcatt 360  
 tgctgcacta agaactcctg tcatgggtgcc tncagcacgt cccgcagcat agcaaagatt 420  
 caccgatgga aactttctgt catccgggtgc ataanatggg agagaacat acttgctaag 480  
 atcaagacga gggccagta 499

<210> 3543  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220056f06a1

<400> 3543

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 cccaatggcg gatgagagcc ccaaaccaga gaccttcgaa ctcaacaatg gaagcatgca 120  
 ggtctctctc accaatcttg gcttgaccaa tcatcttctt aatccgtact tggaaatgat 180  
 ggtctthttht ccgttccaat thtttcatat ttcatcttht atttcattgc ctaatttgcg 240  
 gcttcaactc tctctcttht tctggaattt caaggggtg gttattctga cggttgggtc 300  
 thtggccttg gaatcttgct ggaaatccta ttcagaaagg gtctthtgct ccttaattth 360  
 cgggctt 367

<210> 3544  
 <211> 481

<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056f06d1  
<400> 3544

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gtaaagaaaa gcttaaattg caagaaaaga tctagaaaga aaaacttcaa acatattaca 120  
ttcatttttt caatctcgtg ctttttcaag gtgcaagtga catttcccgagggttataaaa 180  
ggataaggaa aatgatcaca tgatgctaaa acgacctcca ataactataa cttgattagg 240  
ttctcttctg aagtggcttc caatgatcaa aaccattcca aagttaacac gcacacaccc 300  
cacagacaca cacatatcta gttctttggc catccaaatt tgtacataaa gtagttttgt 360  
gcccttagat acccaatcaa ctagtctttg ggattcacaac cgttggacac agtcttttcc 420  
ttcagatctt ttgcaagctt gtctatggaa tctgaaactt caactctatc tcgagccgaa 480  
t 481

<210> 3545  
<211> 491  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056f07a1  
<400> 3545

agaaaagegc agcttggttc atccacgtca ctctctccat ctgaaagcag cgccgcggtt 60  
gagttagttt atatccgaga cgccaccaca gtgaatattc aacttgaata ctcttttaggg 120  
tttttccatg gccaccgtga tccgcaaccc tatctcttcc ccttccacct ctcaccaccc 180  
caacccaaaac cacacattcc tcaactctccg cttctctcaa accttacgct cttctctccg 240  
ctccaaatcc cgattcgccg tttctgtctc ccaatcgga cctcctcctc ctcatccttc 300  
ttcttctcgg cggcgctctc cgtacatccc caacctcatt ccggaccctt cctatgtccg 360  
cattttcgac acgactctcc ggcagggcga gcagtcctcc ggcgctcca tgacctcgaa 420  
ggagaagctg gacgtggcgc ggcagctcgc caagctgggc gttgacatca tcgaggccgg 480  
cttccccgcc g 491

<210> 3546  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056f07d1

<400> 3546

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 ggggggaggg gaaaaaaaga gaaaactggt cccccaagc acacgacaaa agaggggcttg 180  
 aaacacacgg ggaacctaac agggggccagc ggggtggcgca ctatattcgg aagcccccg 240  
 actgagaacg ggaaaaaac gctggggccg cagaacgata acccttcaac gttcccagaa 300  
 aat 303

<210> 3547  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056f09a1

<400> 3547

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 catgtgctat gttagcetta cttattcatc catcaacttc tcatcattta ttaaacagga 180  
 tttcctgggc attctgtgta tatctagaag ctgtctcagt cctgccccaa ctgcgggtca 240  
 tgcagaacac caagattggt gagccattca cagctcacta cgtatttgca ctgggtgttg 300  
 caagattctt gagctgtgct cattgggttc ttcaggtggt agatagccgt gggcatttgt 360  
 tgggtggcctt ggggtatgga ttatggccat caatggttct tatctcggaa attgtccaga 420  
 ccttcatctt agcagatttc tgttactatt atgtcaaaag tgtcttcggg ggacagcttg 480  
 ttctacgtct tc 492

<210> 3548  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220056f09d1

<400> 3548

cgggatgtcg gaatcgggtca cgagctacta gccggtggcc ggccctgtcgt tttttttttt 60  
tcatcaacta gaagaattat ttcattaatc gagtgcttat tcattgcaa ttcctacaat 120  
ttgatacatg gccattggaa ataaactagt gcgacctata cgtattaaat catctatgaa 180  
gctatctatc agtcccccta aaaataatcc tagttcaa atcatgacaa gagagaatat 240  
caaggcggcg aacaatataa gaaaaccaca caaatgtcca cgaaaacgat ttgctttctc 300  
aaggaaattc cagcctccat cattgggtgc caaaactcc gtgatagaag agtatcaa 360  
atccttcaac caatcttgaa cttacagac caaatagcat ggaaggcaca acccagaaag 420  
atgaatactc agaaaattta ccagacatct ctaagataac gtccatccat ctggagtgtt 480  
ttaactata 489

<210> 3549

<211> 534

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220056f10a1

<400> 3549

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tcttttggag gtcctatgag cactgccc atctgcatgc atgcatcata caagaatgac 120  
tcaccttgta ggtgcatctt gatctcgaac atctaagcc agacaaaatt aggggtacatt 180  
gggttgcttc ggttctctgg ttcttacctt ataaatcaag ggtcttggtt gtccttagcc 240  
tctttaaaaa gatgcctatt aaacctacaa gagttttata tgcatagaat tccatgggct 300  
aacaataaac aggctagatt tggatattgt tgctgggtgc agatttgctt gattgatgtc 360  
aaatctcaaa atgatttata ttctataaat taaatccttc tacataagga gatgagtttt 420  
aagtatatag attgtaattt cagtttgatt caatgttcta ttattatggc aatgaccaca 480  
ttggcagcag tggccacgtc aaccaccttc aatttcattc tatttattct ctaa 534

<210> 3550

<211> 541

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056f10d1  
 <400> 3550  
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 tagacagagc atactcaaca agaggggtcat gtctaatttc ctttattgaa ttaaacaac 120  
 gaacaaacga aagaaaacac aaattccaga tcatgcagag gattccgcat tttcagaaga 180  
 tctggcagta gcctgtggaa cagaaaaagc tggcataaga gtattaccag caattttcaa 240  
 atcttgagaa attccaaga gaatatcaaa aactgtagac tgtttgggat tgtcaataag 300  
 gaaactcaag tgccatgaag tttgatttgc ccactcagaa ctccacattt caaaaccatt 360  
 attaggacca catacctcta ttgggaagat caattcccag gaatgtgggt cggatttttg 420  
 ccacttacat gcacgaaat gctctgtact ggtgctgttt gttaaaaaca cttgtaccaa 480  
 tgaggcccaa tcactccttt tgactgctgc attcccagac atcacaattt taaccattaa 540  
 a 541

<210> 3551  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056f11a1  
 <400> 3551  
 caacattcaa accctagaat ccaaaacggg caccaccaa tgcgtccaagg actcgttcga 60  
 catttgcaag gaccagtaca agagcatgct cgacgccatc aaggaaacca aagccgcat 120  
 tgctaataag gacatcatca cggctaagtt caagttcagt gctgttttgt cgttccaagc 180  
 ggcgtgcaag gacgcgtttg aagatgggaa aatcccgttc tttgaagact ccgacgcggt 240  
 ttacaacctg ggaggggaatt gcttgatat tatcgctgat atggagaaag ctgagggtcc 300  
 tcagaaaatg ccaccggtgc acaaagtgc cccttctgca tttagcaacg tcatcggaac 360  
 cgtctcataa atttttggtg acgaatccat ttttttacgt gaatgatgat ggaattgtca 420  
 agtgcagtat tgtgtcattt tctttttgtt atcttttagt aaaacgaatg ttttgggtta 480

<210> 3552  
<211> 409  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056f11d1

<400> 3552

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ttaaaaaaaaa tgaagagaat tccacacaaa agtaaaggag atttcaaagc aaatgacttt 120  
tcagtctcag gttacaatca acgacaatca cacgaaacac aatagaacaa cataacacac 180  
ttgtgcccaa ctcacgccta gtcgtggctg atgcacttta ttcagctttt aacatatgaa 240  
attgatggaa ttaaggggtca attaagcccc ataatacatc aattttttatt tcttagatag 300  
cattagtaga gtaaaacatg agcttaattt gatgatttaa ttgtgcccct gagtaaggga 360  
agcatcaatt tttttgctaa ccacaacagc cagttgcaac aaggtatga 409

<210> 3553  
<211> 476  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056f12a1

<400> 3553

tcccaccttc ctctccttct ttctttctgc ttaaggtcta cacaagttct ctgcttcttc 60  
tccccctatt gacctttggc catcacaagc gaaaaccac ttctggatct tctgggtgtaa 120  
aggccattag aagcttttaga aattttctaa ttgagttggc gtatagtgtt gaaggggggtg 180  
aaatctggag ccagtttgt tagttgttac tcacttcac tgtaagctca taggttgaac 240  
cctctttttt tggagactta cctgggaaaa gatgatgatg tttgaagata tgggggttttg 300  
tggcgatttg gatatgttat gtgtttctct tggagagggg gatattgctg tgagacaaac 360  
tgaaccggat cctgtagttg aggatgacta cagtgatgaa gaaattgatg tggatgaact 420  
tgagaagagg atgtggaggg acaaaatgcg tcacaagcga ttgaaagaac aaacca 476

<210> 3554  
<211> 400  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220056f12d1

<400> 3554

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atctcttttt aattttcgca atgtatttac tggcactcgt taatttcttg ataaaacggt 120  
ataccctgcc ttattttact atattgagca cgaatgttca tctaaaatca atgtatggtg 180  
cctactaatg acaccaaacc aagaggcgtc gttccaggac cgtgacacaa ctggcaatgc 240  
ttgaacatca cggacttgcg ttatcatccc ttgtgggtact ctccaattga cggaatgaag 300  
cagattacct ggaacagggtg atgatattac ggctggcata ggtaaacctt ggcaacttct 360  
gcaacctgtt ccaaacagaa ttacatggaa acattggcca 400

<210> 3555

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056g01a1

<400> 3555

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gtgaccccca tgcgccgctt caccatgcgg cggttccgtc agcgttacat gtactattca 120  
tattgctatg atactttaag gtaccctgtg ccacaaccgg agtgtgtcat tgtaccctcc 180  
gagaaacaaa ggtttaagga gaccggaagg ttgaaatttg gcggcagtc aaccggcaa 240  
tctcgacgga ggggccgtac aacaactccg gtggatcata ccgatcaggg tgatattgta 300  
tgattgatat tgagatgtat ataatagtgt caatttttta gatctttatt tgtgggtttt 360  
tttttttaca ttatatattt atttgccgac aggcataaat aaaccaatcg atttatatat 420  
ggtctttatt tttgtttaat aaatgtgttt tgggtgtt 457

<210> 3556

<211> 312

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056g01d1

<400> 3556

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ttttttttat	ttattttttt	tgtttaaatt	tttttttttt	tttttttttt	tttggaaaaa	120
ggaaaaaggg	ccccattgat	aaaaaaaaaa	aatgggttta	aaaagggggg	aatatttttt	180
ataaaaaaac	ctaaaaaatg	agggaaaaaa	accccgga	agcattattt	ttttcgggaa	240
accaatttgg	gggaaaaatc	ttagcggaga	attttttccc	caaaattttt	tcgaggtaaa	300
aacccttttt	tt					312

<210> 3557  
 <211> 539  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220056g02a1  
  
 <400> 3557

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tcatacttgt	ttttcgcttt	gttaagtttt	aagaaaaatg	gaggcacatt	ctccagttat	120
agccaagaag	ctatggaatg	tggtgaggat	caccttcttc	atgatcagga	agggcttggt	180
gtcaaagagg	aagctgatta	tggacatgaa	tttgatgatg	aagaaagggg	aattgctcag	240
aaaatctatg	agcaatttca	tgcatctca	tcaccatcat	cattattcaa	agagtttggc	300
acgtggttat	ggcatgcagg	aatatgaatt	ctcatgcagc	aacagtccaa	atcctgtttt	360
tttccatgtg	ccaaagagga	agcatcattt	caacttcctt	tgcatgaaca	ccccagaggt	420
tgttgaagag	cctaataata	ggcctgtggg	tctggtgcct	aataatatga	cacctgaata	480
cactttcaac	cttaggtttg	ataatattaa	tgcatctgaa	tttcgccctg	gggagagga	539

<210> 3558  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220056g02d1  
  
 <400> 3558

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tttttttttt	tttttttttt	tttttttttt	tttttttttg	gaaaaaaaaa	aagggaaaaa	120

aataaaaaaa aaaaaataaa aaaagggggg ggacaaatta caaaaagggc ccacccccaa 180  
 tttaaaaaac cgccacccaa aaaacccacc cggttaaaaa acaaccttct atataaaaaac 240  
 ccataaccc cataggggag ggaacccaat ttttaaaaaa aacaaaccct aaaaaaaaaa 300  
 aaaaaaccct ccttaaaatt ccaaacccaa aaaccgggg atcaaaaccg gggaataatc 360  
 cgcg 364

<210> 3559  
 <211> 542  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220056g03a1

<400> 3559

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 aaaccttcga taccatttc gccctgccc cgaaagtcaa cgtctttgtg aacttcaggg 120  
 cgaggaggca cgttggggtg cgagtttcga acgcgctgat cgaaccagat ggaggggaagc 180  
 tcgtggagct tgtggtgacg gattttgaga gggatttgaa gaagggtgag gctctttcgt 240  
 tgccgaggat caagctctca aggattgacc ttgagtgggt ccatgtctc agcgaaggat 300  
 gggccacacc cctgaaaggc ttcattgagag aagccgagtt cctccaaacg cttcatttca 360  
 actcgctccg actcgatgat gggtcgggtc tgaacatgtc agtgcccatc gtgctggcta 420  
 ttgatgatgc gcagaagcat cggatcgng ataacaaaaa ggttgctctt ttgatccaa 480  
 gggagacccc gttgcaattc tcaataatat tgagatttat aagcatccta aagaagaaag 540  
 aa 542

<210> 3560  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056g03d1

<400> 3560

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tacctggtac cctgtcacct tggaattcca aattgcacgt taagggttaac tcccgaattg 120  
gacccaaaaa acaagggaaa attaattccc cccgggtttt ttcttttttg ggggaatttt 180  
caaacttttc caggggaaaa ccctagggag cccaatttgc tttaaccttt tggaaccggc 240  
aattaaatgc ccaggggctg ttatttttcc caaaaaagga ttcgtttt 288

<210> 3561  
<211> 525  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056g04a1  
<400> 3561

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aaatgggtac aagagatggt catgatgatc ttcatactga tgatgatgat caagaagact 120  
cagagttaga ggatcaagaa tcagcaaagg cagagaaatg gaaaaaccat tactcatcaa 180  
atcacaggat tctccttggt ggagacgggt acttttcatt ctctctttgt ttggccagag 240  
cctttgggtc tgctcacaac ctcgttgcc a tttctcttga ttcctatgat agcattggaa 300  
agaagtacag taatggattg agcaacgtga tggaacttca agaaagaggt tgccttggtt 360  
ttcatgggtg tgatgccaaag gaaatgagtc agcatttttt tctcaagacc cagagggttg 420  
atcgcatgtg ctataacttc cctcatgttg gctttatata cccagaaaat agccactgcc 480  
agatccagtt gaacaaaagg ttgctgaagg gtttttagca aatgc 525

<210> 3562  
<211> 385  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056g04d1  
<400> 3562

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gacttcagag tcgtctttca caccggagag gcatatccta attggacagc acctagacag 120  
tctgcgcaac gggattctcg cccgcgacat ggcacgtgcc cgcggcgata tgggcctttt 180  
cgccctgttg ctgcgcgttc ttgatctoga cggggagctt gccgcccttg gtgagaccca 240

tgctcgccgc atacgtcgag tgcgggaccc agccgggcca cttgcgcggc gagccgacct 300  
 cctccatcat gcggtcgact tgttcgaggg tgaggccctt ggtctccac acaaagaggt 360  
 aggcgtagat gaagcacagg acgca 385

<210> 3563  
 <211> 539  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056g05a1  
 <400> 3563

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 acttgttcga cttggagaac accaatcagg atctgaaaag tgacttgaaa gatctctaca 180  
 taaaccaagc tattcaaatg gatgtggctg gtaatcgcaa ggctgtagtc atctatgtgc 240  
 ctttcagatt gaggaaggca ttccgcaaga ttcattctcg acttgtcaga gagttggaga 300  
 agaagtttag tgggaaggat gttgtcttga ttgccacaag gaggatcgtg cgaccgcaa 360  
 agaaaggctc tgctgttcag cgaccccgaa cccgcacttt gaccgctgtc catgatgcca 420  
 tgctggagga tgttggtat cctgcagaga ttgttggcaa acgggccaga tatagaattg 480  
 atggctcaaa aataatgaag gttttcttgg accctaagga gcgcaacaac actgagtac 539

<210> 3564  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056g05d1  
 <400> 3564

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 gatattttac attcagaaca taccaactcg ctatcctatt ggatgttttt cgaaagtaaa 120  
 agcactactg aaacaacgaa catagactac agttatgcct gaaattatta cagctgggtc 180  
 aactagcta gggtaaccc ttccaaaagc ttaaaggatg caatgctata caggttagac 240  
 ttttaattata aggtggcaca catgatatgc tatgaacaaa atattgattt gaaaaaaaag 300

aataatatta gccggttaaa aaaacgctgc cttgtgcata gcaggaaaaa tatggttcac 360  
tcaaagggca aaacaaactt tcctcatcca tcacccatag agggtcagaa gaatattccc 420  
atgatgatgg agaaggcact tgtgggtgggc aagagaagtt gcaaccctct tcaactgttcc 480  
cttcataaac tggc 494

<210> 3565  
<211> 501  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220056g06a1  
<400> 3565

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gaaaaatcat tctgctattt ccacccccaaa caggctacttg ttgggggtgtg tcccctgtgc 120  
ttgaatgaga ggctccttat actgggttgca aaacaaggtc gccaccacaa ccgttcttct 180  
tcttcatcca tatcttcaca caggcttcaa agtaattcca gacacagaaa accaccctct 240  
tcttctattc acaagatctt tgcttttggc tctctcttca ctcgcccaga atcccaccac 300  
aactatgact atgatgatgt ctctcccact ccagaagagt cattcatctc aatcaagttt 360  
gaagagaatg ggggtggcatc gtggggaaaag agcacagtgt caaagaagggt gtcgtcgtgg 420  
gaccatcaaa acaaggagaa caagagagtg atagagcatg ggaagtaacg tgacacgttt 480  
aggtggccaa agaggatttg g 501

<210> 3566  
<211> 282  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220056g07d1  
<400> 3566

ataatgaaca cttggaaagc tatataccat ttgggcttag tgattaaaaa tactgaacaa 60  
tacataacat tcacacacga tcttatcggc aggctggatg aaaacacttt tcgcaataaa 120  
cacagctttt gttgaaaaat ttttgcctatg gccgaactgt acgaggatgt taacaatttg 180  
ggctacaaca ggattgcaat aactggggtg ctccatgtag tgtaagtcca catcatagct 240

tatgcatgga atgaatcaac tgctactggc tgcgtgtttt ca

282

<210> 3567  
<211> 141  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220056g08a1  
  
<400> 3567

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ggagatgggt catggcaacg tcgccgattt gaggaagacc agagaagatg aaatggaggg 120  
gcttgtaaga atgcatggcc t 141

<210> 3568  
<211> 534  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220056g08d1  
  
<400> 3568

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aacatcgtta aaaaaacaat atatatacat ggttcctgat ttgaatggta tattatacct 120  
tgtatgaaca taaaacagtg ataaagaatt cagccacca atctgaaaac tgtacaattg 180  
agcagtacca caccgcttgc atagatgcaa acctttatct attttagtgt ggtcaaact 240  
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tcagctgaag ctaggggttt tgcaattccg ctccacctac aacacagaac agaggaagt 360  
tggtccttca gagtactgac tatatcacct ttagatattg accaaatata gacagatcca 420  
tcagcagacc cagcagcaac atgattgtca tctgggctga tacaggagcg actccaatta 480  
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<210> 3569  
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<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
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<400> 3569

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aattctccgg gtctttaact ttttaataact tttgttggag aagaattaag acatctaaat 180  
ggcttcaaat tccgataagg attccccaac accaccttca cctgattcat cttcatccca 240  
atccccgcca tcatctcctc caccatccca agatagttca tcgccccac catcatctca 300  
ggataattcg tcgcccgcac catcgtcccc cccgccatca tccccaccac catcatcttc 360  
gcctcctccg tccccgccac cgccgtcacc aaatgatcag aaatccccgc ctccgccatc 420  
tgactcatcc tcttcccccc catctccacc accgncgccca cctcctgata aggattcagg 480  
cagccaccgg tcgccaccg 499

<210> 3570

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056g09d1

<400> 3570

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cacaggagct cgcattccga atcacgcgcg agctgtccac ttaggatatt gaacgtcata 180  
tcctatcgac tgagttgatt gaagagagca tggcagacac cttactagac tgagacatat 240  
agattga 247

<210> 3571

<211> 495

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056g10a1

<400> 3571

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ttctgggagg tggtttgccg ggagcacggg atcgacccta ccggaaggta cgggtggggac 180  
tcggagttgc agctcgagag gatcaatgtc tactacaacg aggccagttg cggtcggttc 240  
gtgccgcgcg cggtttctcat ggacctcgaa ccgggcacca tggacagcgt ccggtccggg 300  
ccgtacgggc agatcttcag gcccgacaac tttgtgtttg ggagtcagg ggcagggaac 360  
aactggggcca aggggcatta cactgagggt gcggaattga ttgattccgt tctcgatgtt 420  
gtgcgcaagg aggctgagaa ctgcgattgc ttgcaagggt ttcaagtgtg ccattccctg 480  
gggggaggaa ctgga 495

<210> 3572  
<211> 409  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056g10d1  
<400> 3572

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acaggattga tttcacacag acttatttac acacacaaa tgctggatat cgacgtctac 180  
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ggaagaagag ccctgttcca atccctaagg catttcttaa gtggatcagt gatcttcctt 300  
cggcacaatg caatgaacac tacgtcacac tcttgaccca gtgagatgac ccgtgcacca 360  
gttagcaatg ctttgtccaa ctgctcttgt acatacttgt acccggggt 409

<210> 3573  
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<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220056g11d1  
<400> 3573

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cccaatgcaa gacaaaaaga catgatcgag gaaccaagta atgaatctct cccatttttag 180

agtggggcat acccttttt

199

<210> 3574

<211> 487

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056g12d1

<400> 3574

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tttttttttt tttttttttt ttgggaaaaa gccaaaagca atcccttttc aaaaaaccct 120

tttcccttat ggggaaaaaa ggaaaccgtt tatgaggctt ggagcattaa taaagccgct 180

tataaaatat cccgattttt gggaaattag ggggtccaaa caaacaaggt aatcaaacia 240

tttggaaga aaattttttt ttctgggctt ggaaaaaat aaccccccta atcccggggc 300

aagggaacct tatttaaaag acatgggggg gccttgacag gggcccaaaa tttttgggga 360

aactgggatg ggaacccgaa aaacttggtg caaaaagggg gcttcaagac cttgggggag 420

ccccccata aaaagggtccc caagggtggg ggcttaaggg tgctgaaaaa cctcgtattt 480

tggggggg 487

<210> 3575

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056h01a1

<400> 3575

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accctcctgc agcacctttg ttccgaccag aggagctcac acagtgggtc ttctatagag 180

ccctcatcgc tgagttcata gcaacccttc tcttgcttta tgtcactgtg ctcaccatta 240

ttggctacaa aaggcagact gatacaacgg taggtggcac cgactgtgat ggggtaggca 300

ttttgggcat cgattgggcc tttggtggca tgatcttcat ccttgattac tgcaccgccg 360

gtatttcagg aggacacata aaccctgcgg agacattcgg gttggaccta agacgcaagg 420

aggtcgtgaa tacggcgttg ttgtacatgg tggcacagtg tgccccgagct atctggagga 480  
ctggattggc caaagggttt caaaaagcat actac 515

<210> 3576  
<211> 447  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220056h01d1

<400> 3576

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gcccattgacg caacacatgc accacctaat aatcataatt ttacatcttt acatacaaaaa 180  
tacaaagact ttaaattaaa attaaaaaaa aaaagataaa cagatcatct tgatgaaatg 240  
aaaccgaaac ccagaaacat tggTTTgatt tTTTTggtg gtcccaactt gattaagcat 300  
gaacggtttg attgaatcac ttggacttga agggaaatggc cctgattacg acctggtggt 360  
aaagtgtctg aagtgcagca ccaatgaaag gtcccaccca gaagatccag tgatcattcc 420  
aaccaaggtc cttgttgaaa atgatag 447

<210> 3577  
<211> 551  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220056h02a1

<400> 3577

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cgaggaggca cgttggggtg cgagtttcga acgcgctgat cgaaccagat ggagggaagc 180  
tcgtggagct tgtggtgacg gattttgaga gggatttgaa gaagggtgag gctctttcgt 240  
tgccgaggat caagctctca aggattgacc ttgagtgggt ccatgtcctc agcgaaggat 300  
gggccacacc cctgaaaggc ttcattgagag aagccgagtt cctccaaacg cttcatttca 360

actcgctccg actcgatgat gggtcggtcg tgaacatgtc agtgcccatc gtgctggcta 420  
 ttgatgatgc gcagaagcat cggatcgggg ataacaaaca ggttgctctt tntgattcca 480  
 agggagaccc cggttgaatt ctcaataata ttgagatgta tagcatccta aagaagaaag 540  
 atagcccgaa c 551

<210> 3578  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056h02d1  
 <400> 3578

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 tttgcatgat cataggaata attcagcatc cattccctaa gcaaaacggg ttcagttatt 180  
 taacgagctg gggcccccac ccgccacaaa ctccgctcca cctctctgcg gttcaaccga 240  
 acccgtcacg ggtgtaaccg ggtgaaccgg aaccgaaccg gtattcggca cgggatgata 300  
 cccatgctgc ttcaaaccat catgaaccac cgcgggcgag gggctgtaag gttgcagtgg 360  
 ggtcacgtgc ctacgccccg ccccatataa ttgacccgaa cccggaacca aatgatggta 420  
 cccgattgga acctgagggtg gcatcacagc atgatatg 458

<210> 3579  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056h03a1  
 <400> 3579

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 gtgtctataa ctgctgtttt gtatgttcgc tacaagctaa gaaattgtca gtgctcaggg 180  
 ccataggtga agaaactaaa agggagctct ataaaccaa aggatcataa atgcaagatc 240  
 cgaccggact tggatgactt caagattatg agggcacaga tgttccccta cgaggagctt 300

gatagggcaa ctagtggatt caaagactga gttcatattg tggaagggaa gtttttcatg 360  
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<210> 3580  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056h03d1  
 <400> 3580

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 atatatatat atatttctgt tagtttcaat tagttgaaac taagttggta tttaggtgat 180  
 ttatcaggat tgaagagacc aaaatgacgc tcagtatcag caccttgctt ctggttttcg 240  
 tcaaacatgg cgaacaagta agtctctata gactcaccag gcctctttgg agttccattc 300  
 ccactcgagg catgacgaat caaattagca tagtaagtgc ctgcattatc aattgaggct 360  
 ccagctccac cttcagatgg ccaccactc tcagaaacca ctatctgcaa attggacgct 420  
 cccactttct ccaaagcagc atatattgaa tccaacatag catc 464

<210> 3581  
 <211> 570  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220056h04a1  
 <400> 3581

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 ttggtggtcg cattcatact gacttctcat ttggtgtgcc agttgacatg ggagcctcat 180  
 ggctacatgg agtttgtaat gagaatccat tggctccatt gattcgtggc ctggggcctt 240  
 cattatatcg taccagtggg gataactctg tcttatatga ccatgatttg gaaagttata 300  
 tgctttttaa cattgatggg aagcaagttc cacaacagat ggtcattgaa gttggagaca 360  
 tctttaagaa aattctggaa gagacagggg aagtgagggg tgagcatacc gaggacatnt 420

tcagttccca agctatttca attgtgctag ataggcacc agaaactaagg caacaaggac 480  
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 gcagatatga tttcattgaa aacctggatc 570

<210> 3582  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056h04d1  
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 tataacaacc aaaatcgatt aggtaggcaa agtaaaaggt ggcataagat ctaatagcac 180  
 tagagaaaga cataatgaac agtctaatec tegtcttctt cgtctccgtc tccacctgag 240  
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 aggggacttg taagtgagaa gtcaatgtgc ttctgtgagt caaccctcac caagaaagat 360  
 gggatgttca ccacttgccct cccaaccctg atatgtctct gcttgatgag aacctggcg 420  
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<210> 3583  
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 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056h05a1  
 <400> 3583

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 gaagtcctac aagcattgcc cgttttgaag aaatcatatg gagacagttt gcacaagggt 240  
 ttgcatgttg gccctgactc ttgttctgtg ttatctagtt tgtagaaga agaggatact 300

gaggcttggg gaatagaacc atatgagtta gatgatgttg gtgcaaagtg taaaagtctt 360  
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<210> 3584  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220056h06a1  
 <400> 3584

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 ggtaattacg acagcacatg ctcgatctgt ttgtgcgagt acaaggattc ggagatgctg 360  
 aggatgatgc cagagtgtcg acactacttt catctctgtt gtctcgacct atggctcaag 420  
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 ctgcacgagg tcgtgc 496

<210> 3585  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220056h07a1  
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tgatgttttg gaggggtggt tgagggataa tcaggggaag aagatggccg gtttggagaa 300  
 tcccaggat gcttttgagt gtgcggatgt gctctccaag cagatgcttg actgtactgc 360  
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<210> 3586  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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<400> 3586

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 cttgtctcct tctaaagctc tcaaagaacc actttcttca attctcccta aggatcaatc 360  
 tctcgttgtg catcttcaac cttcttctag cttgtttgaa gctattgatc ttatcctcca 420  
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 gaaa 484

<210> 3587  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220056h08d1

<400> 3587

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<210> 3588  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220056h09a1  
 <400> 3588

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 ccgtacgggc agatcttcag gcccgcacaac tttgtgttg ggcagtccgg ggcaggaac 360  
 aactgggcca aggggcatta cactgagggt gcggaattga ttgattccgt tctcgatgtt 420  
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<210> 3589  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
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 <400> 3589

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 aatatggtga cccataggcc taggggacat tctctcccc aaaaaaaagg ggcattatac 180  
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 attatca 247

<210> 3590  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220056h10a1  
 <400> 3590

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 aatgagaata ccataacttt tgacttgact agtcaacggc cagggcaaag gacaagatac 300  
 agtgagcctt tagacatggg ctgtgtggtg tcagctccga aggactctgg tggaaataga 360  
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<210> 3591  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220056h10d1  
 <400> 3591

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 acacaggcca aaacatctct gtagtctctt gaaatggtaa aggagtcgta gacctctcca 180  
 tcactacttt tcttgacttc aaacaagaga tatgaatgat tgaaagcagt caatttgcca 240

aacctatagt caacgtccct ataaagactc caaatagggg gtgatgggtg gaagtctgac 300  
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 tgatgctttt cttcattcac acattgattc tgataaatgg ggcatactct ttcatagtta 420  
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<210> 3592  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220056h11a1

<400> 3592

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 gaaggagcag caagtgtaga tgggagagga ccaagcatat gggacaccta cactagacag 240  
 catactgaaa agatttggga tcatagcacc ggtgacatgg gagctgattt ttatcatcga 300  
 tacaaggggtg acataaaaat agcgaaagaa attgggctgg actctttcag attctctatc 360  
 tcatggtaa gaatattccc aaagggcaag ggagcagtta accccttgg ggtaaattc 420  
 tacaacaatg tcatgatga gatcctagca aatgggttaa aaccttttgt cactctttt 479

<210> 3593  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220056h11d1

<400> 3593

attataaatt ttttgtttat ttttaatttc tttttttgta tggaccaaga tacttcttga 60  
 tctgtgggca aaaacccaaa aggaaacgct tgtaattga ccgtaaacca ttggggggga 120  
 aaaaggacac tacctatgat agcacggagc gttaaaaaac gggccttacc tgttgaaaag 180  
 tgctggaaaa ctcgggggcg taaagggaga ggggattcaa ggaactggga aaaaatgaac 240

cttggttcttg cgaggacaga aaaa

264

<210> 3594

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220056h12a1

<400> 3594

ctgatgatga tcatcacctt caccatcaca aacaccacac tacagcacia gcccaagaag 60

aagacgacga agaacacagc caaggaagat ccaaagtgc tgctgcttcg ctcatgcgca 120

tgagaaaaac cctactttgg tatctagcta gctagcttcg gcaacttaca cacacacaca 180

cacacacaca tatattgagt tgtgagttaa gggctctggc tcttttgcta cgaggatccc 240

aactactcac actcttgggg aatcaagcgt ctcggtccga tccattttct gttttgtttt 300

tgctacaagt atattaattt catgttataa actaattaag tagccttttt tttttctttt 360

caattttata ccaattttta gtttcaagga ttgtgttagt ttgctttacc accgtcttgc 420

ttctctattt ctaagtgtgc aactgttctt tgtgattgat aaacttggtc tagatcgaaa 480

ttt 483

<210> 3595

<211> 539

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220056h12d1

<400> 3595

accgaaaact gggtcttgct tatcattcaa gttttgcttc cactttctgt aaatactaaa 60

taccagaaac tgtggatata aaattacaac acaacacaag acataactct ggattatccc 120

aaccactcat acgagttata tctcgagtt ttattcattc attcattcca tataatgata 180

taaattacag ggaaatacat acaaagacgc acatgagaaa ttaaacagaa gcagcaagaa 240

gagaatgaat taaattcaag gcacaatctt ataagccttg gtcttgacta tccaacttat 300

gaacgaattc ttggagttcc tgaatcccaa aaacccatgt tccttggcct tgatcatgct 360

atccaacatt cctccccctg agaaaataag atccacaaac caccaatcag caacctcgtc 420

aagcttggtta ggcagaagct gattctcact cacaatctca tcccaaacag gacccttattc 480  
cttcatcaat tccgacanac tcaaacccttc ttcctcaaac ccatactnct caatcccaa 539

<210> 3596  
<211> 495  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057a01a1  
  
<400> 3596

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atgaagttaa acccaagggt ttcctcaagc cgtcgaaaga gccgcaaggc tcaattcacc 120  
gctccgtcga gcgtgcgtcg cgtcctgatg agcgcgcctc tctcgaccga tctccggtcg 180  
aagtacaacg tgcgggtccat tccggttcgc aaggacgacg aggtgcaggt ggtgaggggga 240  
acctacaagg gccgcgaggg caaagtggtc caggtctatc gccgcaagtg ggtcatccac 300  
atcgagcgca tcacccgcga gaaggttaac ggctccaccg tcaacgttgg cattcaccct 360  
tccaaggttg tcgtcaccaa gttcgaatg gacaaggacc gcaaatacctt gctcgatcgg 420  
aaagccaagg gtcgcgccga cggcgacaag gaaaagggtta ccaagttcgc tctgaagat 480  
gtcatgcaga ccgtc 495

<210> 3597  
<211> 377  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057a01d1  
  
<400> 3597

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aatgaccga tcacaaaact gaataagcca ctgtaacaat acggatatct ttcggagact 120  
cccgaatacc tatacacatg cgtggaccaa aggcgtaaac gggcttacac tggactgacc 180  
taccgaaaat gcccgggata cacgaagtga aacgcactat gctcagcata tgtttaaac 240  
ttactgtagc accagggagt ttaaaccacc aaacctacca tctggctgac ccggtctta 300  
cacagcggat ccactatgc gggagtcaac agcctaagac accggcacct tgacaaattg 360

tcgaagcgca accagat

377

<210> 3598  
<211> 479  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057a02a1  
  
<400> 3598

ggaaaaaaaa aagtatgtgt ggtggcatgt gttggaagaa atgaaagtag taaagtacct 60  
gaagagagtc aggaggacaa gaagcaagtg gatcttcac ttcacccata attagtagag 120  
caatttcctt gctcaaatca gcaaaaaata gatcatcttc cagttccatg gcaacctcca 180  
tatctttgtg atctaattga caacaaaaag agtcctaata ttggcataaa accaagtaca 240  
agagtttcta attttcactt tctctttttt ctctctctct ctctcttccc ttctgttttc 300  
caaaacttat ggatatacaa gtttatatag gggaaaaaaaa aggttaaggat atggttgtgg 360  
atgggcctta ttctctctcc gtctcttctc atctcatcaa aaacagtaag ttatggctct 420  
aattatttca tatgcatata ggcgaaaaat gaatatttgt cccaaagatt cttatccct 479

<210> 3599  
<211> 487  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057a03a1  
  
<400> 3599

actgaaagca ctcatgtagg tttgcggttt cagagtttgt gacgcacgca tccatggcca 60  
ccaccaccaa cgccgccgca gccccgccgc gccagctctc ccagaaggaa gccgacatcc 120  
agatgatgtt agccggcgac gtccacctcg gcacaaaaaa ctgcgacttc caaatggaac 180  
gttacatctt caagcgccgc aacgacggga tttacattat taaccttggg aagacatggg 240  
agaagcttca gttagcagct agggttattg ttgcaattga gaaccctcag gatatcattg 300  
ttcaatccgc aaggccttat ggtcaaagag cggttctgaa gtttgctcag tacactggtg 360  
ctcatgctat tgctggaagg cacactcccg gtaccttcac caatcagctt cagacttcgt 420  
tcagtgaagc tcgtcttctt atcctcactg atccaagaac agatcaccag cctattaagg 480

aagctgg

487

<210> 3600  
<211> 393  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220057a03d1  
  
<400> 3600

aagcacaaaa gacgtggata acttgatatt attttattac atacatgcat agatagcctg 60  
ctctcaaata agtcggcagg aacaaagata gagagattca acgatcttca aatttcacat 120  
ttgccagaaa tatataacag aatagagggg tatgggatat gagttaagtt ttgatcacat 180  
tcaactacac tatcccaaac cgttactggt aagactttga acttgacttg tactctagga 240  
tcatgtcggt ctcaggagct aatccaacac aagccctcag gatgttttcc agcatagctc 300  
gctgctttga caacgcattc accactgggtg taccoggtgg aaccagaggg gccttggtca 360  
ggtaactaag gatggtcgca actggatgga atg 393

<210> 3601  
<211> 485  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220057a04a1  
  
<400> 3601

gcttttgcag aattcaagta gatcaaagaa gaaatggttt gggaagcaaa aattgcagac 60  
ttcagaatca acctacaaaa cggataatgc accacctctt cctccacctg agattatttt 120  
aactcatggt gagagtgaag atcagccatg agcgtattga agttgcaact gcagtggatg 180  
ctgtggaacc tgttctgtct gttcagatgg cagctgctga agttcaagcc accacaactg 240  
ttcagtttaa cagtaaacca acagaagaag tggctgcaat caggattcaa aaagcttttc 300  
ggggatactt ggcaagaaga gaattgcgcg cgtaagggg gctggtcagg ttgagatcgc 360  
tgatggaagg gccagtgggtg aaacgtcaag ccattagtag tctccgttct atgcagactt 420  
ttgctcattt gcaaactcag attcgttcta ggaggctcag gatgtagag gagaatcaag 480  
aacta 485

<210> 3602  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220057a04d1

<400> 3602

accaacataa tttaccttgt tattatcggg ataaacagaa atgagactaa attgcaggga 60  
 cttgtctgaa gatagcaaat gatttttgct aaaagcagtt agaaatagac aatgaattgc 120  
 aggtttaaca gattaggcag gatgatacaa cagatgcacc acccttgagc ctggatttac 180  
 cgtacagggc ttattcaaac cggattatct catgcttgga cccataagca acttgggggc 240  
 tgaaatcaat gttactgatg actttggcta gcgcagactg atgaccatca ctggtggaac 300  
 ctccagtttt gtcagtccag aaccccaagg gggctacctt aaacaacagt catagattgg 360  
 ctttggctga tggtgacgac acgttggtga agatttcctt ttcttctaca ataatttgag 420  
 tgacgtctgg cgccatt 437

<210> 3603  
 <211> 516  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220057a06a1

<400> 3603

ctcaattgag aatgcgaaac gcatagaatc ggacgagggg aaatgatatt gagaagctaa 60  
 ggttacggat tttgagagat ggcgtgcact aagaagatca ccctgaagag ttcggacggt 120  
 gaggccttcg acgtggagga cgctgcggcg ctggagtcgt agacgcacaa tcacatgagc 180  
 gatgacgact gcgccgacag cggattccgt gtgccccaatg ttaccagcta gattctggcg 240  
 actgatatcg aggactgcac gaagcacgtt gaggcgaaca gtgctgatga gaagcccact 300  
 gaggatgtgc tcaaggcttg atacgtggat ctcgccacg tggatcaggc cactctctta 360  
 gatctcattc tggctgcaaa ctacttgaac atcaagagcc gtttggacct tacttgccag 420  
 acagtagcat acttgatcac gggcaagact gctgaggaaa tcgcatgaca ttcaacatta 480  
 agaatgactt cacccttga gaagaggagg aagttc 516

<210> 3604  
<211> 238  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057a06d1

<400> 3604

aaagacaaaa acaccattt aatcataata ataattgaag taaacaaatg actaaacaaa 60  
actaaaaaat aatcaaaaaa aaaaattttc gcttatattc caccctacc caattgctaa 120  
gctatctttg gtatttgatg acacaaacat gactttttct aattaataaa aatttacaat 180  
gcaaatacgg aggggaacat ttctagattt cattgtgagc ctttccctg tgttcctc 238

<210> 3605  
<211> 430  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057a07a1

<400> 3605

gtagttgaga actaagaaga aggaaatggc tgctcaatg atctcctgcc cagctgttac 60  
caccgtgaac cgtgccggtg ccggcatggc tgctccattc accgggctca aatccatggc 120  
tggctttccc acgaggaaga ccaacactga cattacctac attgctagca acggtggaag 180  
agtacaaggc atgcaagcgt ggccaccaat gggctagaat gaagatcgga ctctttacta 240  
cttgccagag ctcatgatg cccattggc ctaggaaggc gcataccttc taaggaaagg 300  
atggattcct tgcttggaat tccagggtga gcacggattc gtgtaccgtg agcacatcaa 360  
gacatctgga tactatgatg gacgctactg gaccatgtgg aagctgccta tgtttggtg 420  
cactgatgct 430

<210> 3606  
<211> 289  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057a07d1

<400> 3606

gggtgggaaa cacaggggaac aagggagaga gcaattagga aatgtccaaa atatcaatcc 60  
 aaaagtaaaa cctgaaggca catcgtacct tgagggtaca aatggcgttt aagtcacaac 120  
 tccctcattg ggtttacccc ctgtactaat gttcacaatg gtggctgcct tgcacagtcc 180  
 aaatgtcaca tatcccatgg ctgagatctt ccggaggcaa ggactgaatc caccagcggt 240  
 gatttgggaa ctgaagttgc ctgcttctcg gagccggtcg atccgagcc 289

<210> 3607  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057a08a1

<400> 3607

gcacacagac cgagagagag aatgctctca ggggatatac ctcccaatca gaccatttac 60  
 atcaagaatc tcaatgagaa ggtcaagaaa gatgcattga acagatctct gcattgctta 120  
 ttctctcaat atggaagaat tttggatgtt attgctctaa agacacccaa gcttcgggga 180  
 caggcatggg tttgtctcag tgaagtcact gctgccagca atgcagcgcg acaaatgcac 240  
 aacttccttt tctatgacaa acctatgaga cttcattatg caaaaacaaa gtcagactgt 300  
 attgcaaaag aagagggtag ctctgttcca agggaaaaga agacgaaacc agaggagaca 360  
 gctgacagaa agcggcggtgt tgcggaagca cagcaatctg gtgaggctaa tggaacacat 420  
 agcg 424

<210> 3608  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057a08d1

<400> 3608

tttcttcttt tttttttttt tttttttttt ttttttttta ccaacataat ttaccttgct 60  
 attatagtga ttaacctaaa tgtgactaaa ttgcaggtag ttggctgaag aaagcattta 120  
 tccttttctt aaagctgata ccagtagaca atgcttcgct tgctcaacag ttttaaggatc 180  
 agccccaact gcttcaacac ccttgtgcct ggattttcca tacagggtct cttcataccg 240

gattatctga ttcttgacc catgagccac cagagttact ggctaaacgg tactgctgac 300  
tctgaatggc acccactggg gaccatcact 330

<210> 3609  
<211> 553  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220057a09a1

<400> 3609

ctcgagccga aaaattcaat tacagaatcc actgacatgt tgcacaatgg gaatacatca 60  
aatctgaaca tgatgtccag ctgagcagga aagcctttgc aagcagatgg ccataccatt 120  
gatgatggat ttgccccgcc acagacatac aaacagttgc ctgatacaac aattaagggtg 180  
aatccaaagt tatcacagca tgtgaattct gagtcgaagc aagtgctaga agataataaa 240  
gtttctagaa atgaggatca ggttcttagt tctgaaaacg aaaccaaagg caccgaacat 300  
cttgcatctc atcaagttcc ttctgttgaa caaaatcaga atctagcatc taaacttcca 360  
gacctcaatt tggctgaggt ttctaccagg gaagtctgat aatgatacta aggtccaatc 420  
ccagactttt cctttaactg gaaacacagg ccaagatggt tctcaagatt ttccccaga 480  
agctaaatcc agacctactc agggtgacat tctgattgat atcgaggaca ggtttccccg 540  
tgatttcctt tat 553

<210> 3610  
<211> 340  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220057a09d1

<400> 3610

ctattgcaaa gtttaaactt gcacgattat catcagaaaa aactatacaa tattactatg 60  
gaaatcaccg cgtaacacaa tagacgactt gctcatatac attcccaaaa tgacaacact 120  
atataaacag tgatttctat atgcagtaaa atacaacaaa attgatattt cagccttcgt 180  
ttccagaaca gcatatatct gaacaacatg tgatgcagcc gaagcatcct agaccaatgc 240  
agagtttgtt caatgcagtt gcacattggt tgtttatccg ggtacaacac tggatgcagc 300

acatgcaaca acagtaactg cacaagggtt cacaacaatt

340

<210> 3611  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220057a10a1

<400> 3611

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cgggcctccg ccggtgacgc cgaatctata cgctgctaac cgccgaccct gaccgtaagg 120  
cggagcaggc ctaagtgtta ccgctcctgg agcgagagcg ccatcgggac tcatcacgcg 180  
aagctgtatg tttcaacgaa tgcgctgtca gacaagcagc cgaccagaac gacatggagt 240  
tggaagccat tctgcccga aaagagaacg cttagctgga cgatgctctc agaggatcca 300  
cgccccagta ccggcagatt acatgggatg aaataatcct agctacttca tctatatctg 360  
acgatctgcc aatt 374

<210> 3612  
<211> 511  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057a10d1

<400> 3612

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tgcttttcta atgtaatgat ttctttgcat gctacatgaa ctggttcttc cagtagtttc 120  
agtgaagac aaacaaatat gctgtgcgca ttttgccgtg ctgttccttc tctgaaagcc 180  
ttttcaacct gttcttttaa tataacggtg gcagcatcta gaagaaattc tcgagcaagt 240  
tcaggactct ttgcatgctt ttgaggacgg gagcattctc catcaagctc atttccctct 300  
tcatccatca aatcatcatc ctcttcttct tctgctctt cagcatgctc aaagaatctt 360  
ctgatacttt ccccttttgt aattgtaaca taaccatccc ctacaattag cctgcaatgt 420  
acacatcggt gaccttttaa tgcgatgagct ttaacagaaa gttcagtaca gcgtccgtct 480

agcttccaag cctcgagggt gatgaagcat g

511

<210> 3613  
<211> 437  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057a11a1  
  
<400> 3613

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cactcttttt attgttttct ttcttcgttc ttgttggtga acaaataacc aaaggattga 120  
accttcgaag agcaccatgg accctgacgt catcgagatt cctgcctcaa ttcaccaccc 180  
tccaagattg cgcgagcaga acaagggtcat ttgcatgat gtgattgaca ttgatgacga 240  
ctctgaggat gtagtgataa ttggtgaaaa agttaataat agtaacaaag ggaatacaat 300  
tgacgccgtt catgatgatc atcaaagaac ggctgattat acttactctc tgactgatgt 360  
ggaaaatttt aaatcagtaa gtgggattgc atcttctaac aattatactg cagtgtcaca 420  
tagtatgatc cacattg 437

<210> 3614  
<211> 479  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057a11d1  
  
<400> 3614

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gaaacgccag ttatatggcg cgagggttaag ccaccagttg agatggcaaa agtggggtaa 120  
aaaatgaact tgatcctgta cacagaagta ataaaagcta agtgtacagt gggtgctatt 180  
tttacaaggg gctagcataa gaggagacag cctctgatca aatttttttag ttgcctccgc 240  
atgaatgcac tgaaagaacc aacgaaaggc aacgtgtgga ttggcctatt ctatcgcaag 300  
ggcgcctgag tggctgttag ttaatcaaag ttggttccaa gactaagata aatagtactg 360  
taatctttat tcaagtctat ttgctgaaag gtgggttgctt atttcctcga tccaaggcat 420  
tattccatag agtgtacctt atcccatgct agtcatagga tactgtgaaa ttccacaca 479

<210> 3615  
<211> 423  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220057a12a1

<400> 3615

cgctggcgctc agaatacatg agctatgctc tcgtacgtac gcttacaatt ctcgtaatgc 60  
ggctcaagga gctcctggag attgtaggcc gcagtaaagtg tcctgtgatt agacagagac 120  
atgacactta caggtagcaa tgtaaaacga gaatcggacg tatgcagatt gccttgacgg 180  
gcttgtggta aagctctaca tgaaaccctg ccatagagag actaagaatg cctgcgtggg 240  
accctacatt gcctctgcct ccaagtggac tcgtgagga atggctacac tagcagctct 300  
aaacgtgctg gggaagatca aagggtaccc agattgggtcc gatgccaata gggctgaacc 360  
cttcctcaat gagaatgctc aaccaccaac tggatccaca agcattgtta atgcaaaagc 420  
cct 423

<210> 3616  
<211> 431  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220057a12d1

<400> 3616

ggatcacaaa tcatatatct tcaatttttt acttcaaata ataatgtaca aaataaatcc 60  
agcagaaggg tatataatga cagtaataca tctgaccatg caatcaagag atatatgggt 120  
tccacagatc cttggcttct catcaataaa tgcagaatca caatacagtc tcccatattc 180  
tgtacagcaa catcacctgc caaaaaatag tctagaggct aaattttgta ccaatttcac 240  
tttttgtttg gcctctatat gaagttctaa aagaaacagt tgacattgca taaattcttt 300  
aactgaacga actgcataca tatgattaga agaagtcatt ctttgagcta atcttaacat 360  
taatcctatc attctcatat cttaggtacc agagagaaat ccaagctccc tacttagcat 420  
gcactgatgc t 431

<210> 3617

<211> 507  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057b01a1

<400> 3617

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taaggactac gtctccttgt actatgccac ggatgatgca gttaagaaag actcagaact 120  
ccaagcttgg tggaaggaag ctgttgagaa gggtcacggt gacttgaaag acaagccatg 180  
gtggcctaag ttgaacactc ttcaagatct gattcacatt tgctgcatta ttatatggac 240  
tgcttcagca ctccatgcag ctgtgaattt cggacaatac ccttatggcg gtttcatact 300  
aaatcgcca actctaacca gaagattgct ccagagcca ggaaccaaag aatatgggtga 360  
acttaccagt aatcatcaaa aggcttattt gagaacaatt acaggaaaga ctgaggccct 420  
tgtggaccta acagtgatag agatattgtc aaggcatgct tctgatgagg tctaccttgg 480  
acagagggac aatccaaatt ggactga 507

<210> 3618  
<211> 354  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057b01d1

<400> 3618

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atgtctgcct gcacaaacta aattccgccg gccctaaggt taaccggggtc aaaactaccg 180  
gagaacttat aaactttctc caacaactga atggaataac acaaggatct aaacaaagtc 240  
cacctttacc cctggattaa aacctttaat actactacac cttacaaatg ggtagccag 300  
aacttacaag cccgaagtca accttgcca gttaacctac cttcatatct ggta 354

<210> 3619  
<211> 423  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057b02a1

<400> 3619

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gaaaactttg atatTTTTga ctgggccatt cctgaggaca tgcttgataa atTTTTtgag 180  
attcaacagg aaagattact caaggctagc ttcttccatg aaccaaattg gggttactta 240  
ccagaagacg aattgtggga tgggggtata tgaaaagtcg gttgaatgat tagttaaaaa 300  
agtggatgga ataaaagaaa cgcattcttct gtttggggtg ttaggctata tgaaaatact 360  
cttatcttta gctatgtgca tcctttgtca ctatcagtct ttttaagttgc aacccttcaa 420  
ctg 423

<210> 3620

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057b02d1

<400> 3620

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cttgaaactg atactaggtt atttaaataa aacatcggtt aaaaaacaat atatatacat 120  
ggttcctgat ttgaatggta tattatacct tgtatgaaca taaaacagtg ataaagaatt 180  
cagccacca atctgaaaac tgtacaattg agcagtacca caccgtttgc atagatgcaa 240  
acctttatct atttttagtgt ggtcaaact gtgcacgtat ccaaagaaat gaaagccagt 300  
tatgtccaga cgcaaacaat ccattctta tcagctgaag ctagggggtt tgcaattccg 360  
ctccacctac aacacagaac agaggaagtg tgttcttca gactactgac tatatcacct 420  
ttagatattg accaaatata gacagatcca tcagcagacc cagcagcaac atgattgtca 480  
tctgggctga tacaggagcg ac 502

<210> 3621

<211> 489

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057b03a1

<400> 3621

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tttccccctta ccccttcttct gtgtgtgatg atgtagatag agaataaaaa gagaccagtg 120  
tgcagtgaga aagagggttg gcacttcttt gtgtggcttt gttatgttct ttgtgttgga 180  
atgtgtgatg ggggtgaagag ggagaagagg tgtcaagaga taaggaacag caacacatgg 240  
gagtttatgg aaatgagtgg ttgttttagta gtttctgtgc aaattggcgc cgtttaagac 300  
accagaattc ctgttctatg cctccttttg agtgaaaaaa aaaaaacatc aaaacaaaaa 360  
cttgttctct ctcagctttt catcttccga tcttaataata cattgactaa aagaaaaata 420  
aagggatcaa atttaagttc cttgatctaa taagatcctt gcttttaatt gtactactca 480  
tgaagagac 489

<210> 3622

<211> 353

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057b03d1

<400> 3622

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ttttttgagc cacaatacat gcggagggct ataatcggac tgatcaacct gcaccacagg 120  
ccatatacgt aactccaca tagattacgt tgctgaattc atattccatc aagactcgga 180  
cgactggcc actgacagag cgtattacag cggtaacgta ttggtctccg catatgctcc 240  
atcgctgcgg gtctcgaact cgctgcacag gtatgcatgc tatggatcag tggcgaaacc 300  
tcactcgttg accttcggcg gtctcatcat cgcatagcct gcatgggcca cta 353

<210> 3623

<211> 482

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057b04a1

<400> 3623

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 ggttcttttc ttaggagtgc tttgtctaag aggggtggcag ttgatccgtc ttctagaaag 120  
 agtgagctgt ttcaagctgc agaaaaatgg tttgagagag gctggaatag attcaaatta 180  
 gtaagcttct tggagatggg aaagttgcag cttcaaata caagtctgat acaacggaaa 240  
 aagaagagga tgaaatatac tccctggctg gtgctttgga ggatgttggt aaggcatctc 300  
 agcttgagat catcgagctg aagcatactg tgggtgaatt aagggcagag ttgagcttac 360  
 ttaagcagca tgtataagct catgccaaag agcttgacca tagaatgcat cgggtagagg 420  
 aacttgaaga gcaagagaga gtggcaaag aaaatattga gggactaatg atggacattg 480  
 ct 482

<210> 3624  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220057b04d1

<400> 3624

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 gcgggggttac agaccaacca taccacagac taatagcact cgagtttagca tccagatata 120  
 cgcacaattt gtgacttttg attttctcac tcataaatag atcacacgat agggaaaaaag 180  
 gaggaagaga gcgagagaga gagagtggga gagagagaga gaga 224

<210> 3625  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220057b05a1

<400> 3625

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 tgccacgaag ccgtggatat ggtgggtggga gagacccagg aagatatcga gacccttcac 180  
 cctcgtatgg tcgaggtaga gtagggggca ggccaatggg tagagctttt gacggggcctg 240

gctttgcttc tggacttgct agaggggaag gcaacaatcg aaataatgcc aatgtgcgtc 300  
 ctagggaggg agattggatt tgtcctgata ccttgtgtaa taatcttaac tatgcaaggc 360  
 gggaccattg taacagctgt aataggtctc gtaatgcacc tgctagaagt cct 413

<210> 3626  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057b05d1  
 <400> 3626

caattccaac tagttcaaatt tcgatagaga ttatttataaa tcaaagtccc acacggaatt 60  
 tcctttttatt tctgtacatg aaaggactgg caagttaaat taaaaatggc aaacaatggc 120  
 accaaaaatt ccaactgccc ttaccaggct cccaactct gataattaca ctgcaagact 180  
 tgagaagtat gacacacgac ctcaatgaga tattccatgt attgctctga aaactcattt 240  
 gcggaagata gatctgaatg tcttcccaac aatttgacaa ccacgctaaa ttcagtgcga 300  
 acccgccagg taacttgagg caccagctgg tttcttcaag tataacaatt gaagcagtgt 360  
 aatgctgatt aaaccctgc tgcagt 386

<210> 3627  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057b06a1  
 <400> 3627

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 ctttctttgc attacatact ctaaaccat tttactcct atttcacaaa agaacaatat 120  
 ctgtattttc caaactacac acatcattta gaaccatgtc tttctctacc aaattgcctt 180  
 tggttctatg attttcatcc cttttcatcc atgcatttt ggctgagatg gtgcgagagg 240  
 acctgtcaaa ggacgtgtgc gctttcatca cctacttgat catggaacag gtgtttgcta 300  
 gagactgaga acgcaactga ctgcatctg 329

<210> 3628

<211> 472  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220057b06d1  
  
 <400> 3628

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ctcaatgcat tttatgatag atgagcaaac gagtatttgt ttaaacacaa acaaacaaaa  120
gggttagtgt ctaatcatcc tccccctcat ctgtaacgaa tttgccagtt ccaggattca  180
aagcagcaat gaagaagaaa agaacattga acaacactag gggctcgatt tcgttgattg  240
gtaccccagt ctcaatgttg agttgggcta gtgctacctt tgcggttata atttctccaa  300
tcaatgagaa aacgaaaccc aattgagcca atcttcccac aaatagctcg tttgctttcg  360
tgaatccaaa taaaggacct gaaccaagac caagagcttc cctgaagcct ttgcctggag  420
gaataacacc tccagtagta ggttcgtcat caacaaatct tccacggcca cc           472
  
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<210> 3629  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220057b07a1  
  
 <400> 3629

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aaataccaca tgcattcttg atcactgcta gatcaacgct attgcccctc cggacgcgac  120
cttcggcata tattacttcg cctatacatg gtcccctaac gcctagaacg ctatctgcaa  180
tgaagagatt gaaattgatg gctagaaggg ggattctgac agcctcaaag agtatggact  240
acaaaaaagg ggttggcctg agacat           266
  
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<210> 3630  
 <211> 532  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220057b07d1  
  
 <400> 3630

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 agcagaaggt ttataagctg taaagggtaca tgtaaccata aacaaaaata gtctccaaga 120  
 ctataaaaac attacathtt agacaaatta gtcttcttcc acttcatcct cegtcaacac 180  
 ctactataac tgctggtggt gctgctgcct aacatgtatc atattcacta catacatctt 240  
 agtaggagta gcctttgacg aacaactcct tcttggttc ctcggattca ccctcaccgg 300  
 tgtacttccc aagctgggag agcgagttgg acttggcacg gaaaaggagt gcatcttctg 360  
 ccgacttcac gttctctggg cggcctaccc atgtcttcaa ggcagtgtta tggagggctc 420  
 tggcatacga gaacgacacg tgccacgggt ttggagattg gatcatggca ttcaagttga 480  
 gggtagcttc aacctcagac tgtccaccag acaaaaacat aattccaggg ac 532

<210> 3631  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057b08a1  
 <400> 3631

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 ttgtagagag cctttcctct tgaggttcac tgcacttttt gctgaactca ctgataggac 120  
 tgtcccagtt gctattaaca cacagcaaag cgtgttttac ggaacaacgg gtcgcgga 180  
 caagttgttg gaccctact ttgtgttcat gaatcctatg acaacatatg agatcacttt 240  
 cttgaaccag cttgccaggg agctcacatg cagtggaggg aaatcagcga tcgaagttgc 300  
 aaactacatt cataggggtc ttgcaggac tttgggattt gagtgcacca atttgactag 360  
 gaagagcaca tatgcaatgc tagcaggaac agatggaaca gttccatcta aggagaaggc 420  
 tttgaaagag agagggcata attgagcccc cttttg 456

<210> 3632  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057b08d1  
 <400> 3632

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 aatacaaagt tgacatttaa taaaccaaag caacacaacg ccacaaagtc ctgaaactcg 120  
 gggtgctaaa caaaagtgat aacaggggct ccgaccaacg caccacattg aaacacagtt 180  
 aaataaaaagc gatTTTtgacc ccgCGgggcta aaaacCCcagc tttgggaaca acggtctcga 240  
 gaagatgggg gagacttcaa actTTtgaccg aaaaacaagc ctCctcaaaa agaagacact 300  
 cgagtcCcta aaagaaccca cCttttattg taaccaacat cCttggggga accagccgCG 360  
 acaatacact tttttttctg ggaagcctag gagaccttg 399

<210> 3633  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057b09a1

<400> 3633

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 cccaaagcac ccccgacttt gttctaactc ctccgacact caccacttg actcgcccca 120  
 gtttcaactc tcccgcgctg acccggaact tctcaacatg ctcaatgatg ccgagaacgt 180  
 cacggagcgt gacctacca tgcagggctc tgactctgct attaagagtt tcgaggaaga 240  
 aatactttct ccgcttccga acccgaatct a 271

<210> 3634  
 <211> 582  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057b09d1

<400> 3634

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 gacctagtac aatatatagt aacacaataa atacaagaga ttctgcaaac tgaaaaaggg 180  
 attcttacta aagcaaactc aaacaagaac aacttcact catttgcat ctaccgtagt 240  
 aacacaagat caaaagcagc ttctctgata gaacacacgt acgtatgatt caacatcttt 300

cacagtagtg gttcatttct aacagctagc tattgcaact taaaataatt gcaatgcttc 360  
 tgcaaagtgc taactttttt tccccccctt ctttatggat atgacaatgt gatcagaatg 420  
 aaacaataac caatccattg aatttgaatc tgattttggg tttggatcga taccaccatt 480  
 cttcatctca ggaaaggaca agaaataggc caaagcctac taattaagcg cttaaaactg 540  
 cattagtggc tggtaagtg tgatgttagt cacatcagct tg 582

<210> 3635  
 <211> 520  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220057b10a1  
 <400> 3635

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 agatgtatag actcagatag aaaagataag tggagagatt tttggattcc attctgtcaa 180  
 taatgcttcg agcagcacag cagttgacga tgaacatgac ttgtcactta caagacttaa 240  
 tgaatatcaa acgcatttgc gaacacttca caaagaaaag tctgatcgcc ttcaaaagg 300  
 cttgcaatgt gtgaatgaag tgcattctct atgcagtgtg cttggggttg attttggcca 360  
 gactgtgggt gatgtacatc caagtatgcg tgggactcat gtggaacaat caactagtat 420  
 tagcaatagc acattggcag gtctagagca tgccattctc aagttaaaaa tagaaaggaa 480  
 aactagaatt cagaagcttg acgatgtctg ctctaaacta 520

<210> 3636  
 <211> 185  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220057b10d1  
 <400> 3636

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 tacatgtaca agaaagaatg ctgactgaca aagggatgct tactcaagcg gacttcatcg 120  
 ttagcacagt gcactccttt ggcatctacc gttgatacac ttgatcatga gccactcctc 180

tgatg

185

<210> 3637  
<211> 129  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057b11a1  
  
<400> 3637

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ggaacaatct tattcacctt tggacactgg tttcgaacag gtcttcaata cggatactac 120  
taaaagatt 129

<210> 3638  
<211> 396  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057b11d1  
  
<400> 3638

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aaatgcaatc gggacatata tgggatccac aaattcgggg ctactaatca atgaacgcag 120  
aatcacaaga catgtttacc atattaatgt gagaaaaaac acctcccaa aaatcgttta 180  
gaagctaact tgatgtacca atgatactga ggacaaggga tctatatgat gctgtaaacy 240  
aaacagaagt catgcataa attgtacaac tgaaagaact ggatacatat gattagaata 300  
cggcattcat tgagatggta ttaacaatgg gcctatcatt ctcatatgtt agggaccata 360  
gagaactaca agctccatac tcagcatgca ctgatg 396

<210> 3639  
<211> 403  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220057b12a1  
  
<400> 3639

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 ctttttagtca atattagcag ggagccacta gtaagccatg atgggaaata tcagcgtaat 180  
 atctagatat tttagcatta taacattaca taactgacca tttcccacta ctctgagga 240  
 agaagggatg ccggcagata caaggatcct aacattttct tttattttat taggtacctt 300  
 tatgatctat tgactaaagg aagtgttggt aggaagaaga ttccaatgct tattctctgc 360  
 aacataacag acaaagtcac tgctcatact aaagagtta tcc 403

<210> 3640  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057b12d1

<400> 3640  
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 gcaactagta ccaaccaaac ttctgatata caatatgcat ttcatatgac aaccaataac 180  
 tgggcatggc aacctcttta gtccaaacaa gatcattata atatagatga tctaaaagga 240  
 aagtgaaagt atttaccagc tcttgatcaa tcaatagggt tagaccttca atgctaactt 300  
 ctgagctgca agagcttcag cctccagagt tggctccac aatagtgtag gctctgcaag 360  
 tcatgatgtc acaacatatg gatccatgat tgaagccggt c 401

<210> 3641  
 <211> 510  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220057c01a1

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 atattttcta ctccggtcaa attctcctta aaccgaata aaatttctct tccgttcgcc 180  
 ggaaacaaaa aacctctttc ggctccaatt cgaaggcggg tcaatgtcat tgctatggct 240

ccccctaaac ccggtgggaa ggccaagaaa gtggttgga ttataaagct ggctcttgaa 300  
gctgggaagg ctacacctgc tctcccgtt ggccctgctc ttggttccaa ggggtgtcaat 360  
attatggctt tctgtaagga ttacaacgct agaaccgncg acaagcccgg ttatgtcatt 420  
cctgtggaaa ttacagtcta cgacgataaa agctttactt tcatattgaa gacccacact 480  
gcttcggttc tacttcttaa agccgctggg 510

<210> 3642  
<211> 470  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057c01d1

<400> 3642

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tactgaatag aagaaaaaat gatcaaggag ccaaccggtc aaccttcac agccgttgtc 180  
cattgatctc atggggagta tattgcaacc tgtcatgcaa gcgagatttc tgcccttgcc 240  
aaaactggaa aagatgtggt gtaagcctat atccaccca gttcttacgt ttagggatta 300  
aacttgcac agagtattat tcttcagct ctttgaactc ctgataaaga acatgcgtac 360  
ccggcactac agtactctgc ttgctgacta ttgctccaat ctgactacct ctagggcggg 420  
tatggaaata ctgctctgat tctcatcgt agactttctg aacaggccct 470

<210> 3643  
<211> 482  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057c02a1

<400> 3643

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gcggcaacgg ctgcggaggc tgcaagatgt acccagactt gagctacact gagtcaacca 180  
ccaccgagac cttggtcatg ggagtggcac ctgttaaggc tcaatttgag ggtgctgaaa 240

tgggtgtgcc cgctgagaac gatggctgca aatgtggacc aaactgctcc tgcaaccct 300  
 gcacttgcaa gtgaggtgtt gggagagcaa gcttcaagca gagatagccc ttaattagga 360  
 ataatgataa actattaatg tgtagctaaa aacttatgta ttatgtctgt gatgggtttc 420  
 gtgcactctg gtgttttgtg ttaaacaac atccttagaa taaagtggc atgtcttgcc 480  
 tt 482

<210> 3644  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220057c02d1

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 tccgggggtt aacaagatca tacaaaaata tataactttt gcataaatga aaacagcaaa 180  
 ctaccagcaa ttgaggctag ttctttggcc caatatacctt cagtgcacaa atctgtcct 240  
 aaccattgc agacataact gacacaacaa ggtccttacc ctcagcagac ccatccttta 300  
 tctgagtaag cagactctca tctgtaggta acttcaggtc atccttgggt gttccccatt 360  
 tcagt 365

<210> 3645  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220057c03a1

<400> 3645

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 cgtggcgccc gtgtggattc aatgcatttc cggcaacaac tacactttct caaactactc 120  
 cgacgccctc aaatccctca tgcacctcac tcagctccaa ctcaacaacc tctccgtcgc 180  
 taaagacgtt ggcaaagcct ttgggcttct cgcgggctg gcctccgacc gcttccccac 240  
 ttgggccatt ctctcatag gctccgtcga aggctaatt ggctacggaa cccaatggct 300

cgttgttagc caaagaattc aaccctccc ctactggcag atgtgtgtgt ttctgtgcat 360  
 gggagggAAC agcacgacgt ggatgaacac tgccgttttg gtaacatcca ttcggaactt 420  
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<210> 3646  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220057c03d1

<400> 3646

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 tcgactcaca tactagctca actaacacct aaatttgtca caatcgattg gctttagcgt 180  
 tcacagcaaa ccggattaca ctcttggtgt tccaagacag cactgtgctt attgaggatc 240  
 agagtcacta cccgattacg cctcacttac taagacagcg aactcattac tgggtaatct 300  
 aataacaacg gacatctggg ccaagcctaa ccataagttt ttaagaacac gcatgctgaa 360  
 aagaacgaca tctactgctg tagccatagg cacatgactt gacaatgc 408

<210> 3647  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220057c04a1

<400> 3647

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 actctcgtgg ccgcagtcct cgatggtgca ctcttaccâa gactttgaca tagcatggtg 180  
 agcagagcga gccacattat atgagagtga gtagcttact accctctccc tagacagagg 240  
 cttaaggctc tggatttcgt ggcagtaagg aatactggat cggââââatt gacatgcagc 300  
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<210> 3648  
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<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057c04d1

<400> 3648

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actaatgctg aatgatgttc tatttggctt tacatacaat cccatcacat gaatcgaagt 120  
catagtttca cattattgtg actgataggc ctaagataca ttcctaaaat aaaatagcag 180  
cagcgattat gcgaattact tttttttgtt acctgtgggt ggatgaaact taagagcagt 240  
ggatgatcat cattatcaca 260

<210> 3649  
<211> 177  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057c05a1

<400> 3649

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cactgtaggc cctccactac cactgtgcac gcgtttcaca agcatgatag catcgac 177

<210> 3650  
<211> 309  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057c05d1

<400> 3650

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ggacttttcc ttgatatagc tacgctttta cagaatacga gatcgatgac ccaacgacta 120  
cattgaccat atgtggcaac ggttgccgac aaccagcac agccacgact catagcatat 180  
gtgctaaatg tggaatgcaa gctcttgatg cttggagcgg actagcgggt tattgctgag 240

cccatggggtc ttcgagagtg ctgacttacg gtgacggaga cgcgaaatgac tcgtgacgca 300  
gatecctgac 309

<210> 3651  
<211> 439  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220057c06a1

<400> 3651

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caccataaag caaacatgaa taaatatatt gaaaaataat catggtaagt attctgtagg 180  
catataattg agtagtatgt atagggattg aggaagggtgc attgagtcaa caagatttgg 240  
cgtgacaacc aaaacagcac atgggagtta tagaagctat gtgctgagtt gcgaagccat 300  
gatcaatcca atcttgtgtg tgactataag gatttaacag catagacatt agacaccttc 360  
ttcggatctg gccaccctaa agtcaataca atcttaacat gaaattcaac tatgtggcac 420  
tacgtgttgg agtttgact 439

<210> 3652  
<211> 547  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220057c06d1

<400> 3652

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aaaaagattc attaaagact gcaggggtgga gaaaggggtg gcagaagaaa gattgagggg 180  
gaaccaaagt atcatagaca aaatcatgca gcaggctgct cctcagtggc aggagcttct 240  
ttctgggggtt cttctgtgag gccattagag gtggcctcct ttggctgtga atcaggtgca 300  
ccttctgctg cagatccagt tgcttttgat gctgctttct cttttccatc cttattatct 360

ttggcgctctt tagcaggagc cggtggtgga ggaatcatgt gaggtggtgg•tgtatgcttc 420  
agctttaaca gtattngccg gaacctagac agatccgtgg gttagccaag ctttgggcct 480  
cggatgaccg taattgatgg cttcttgtag tgatccattt tgactctttt cttttcaatg 540  
gtgggaa 547

<210> 3653  
<211> 277  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220057c07a1  
<400> 3653

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taaccgagag gagcaatggg tggcagatca cataagagaa cgttggtgca ctgaaatgtg 120  
aaagtgaggg atgggcacta gaatgtgaaa acgaataggg caataggagg actccaaggg 180  
caactgggaa caaagtggag gacaaccctt tagtgcagaa aaaagaactg tttcagagcc 240  
tgtcctggca gttacaaaac ctaagggaaa ctatctt 277

<210> 3654  
<211> 441  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220057c07d1  
<400> 3654

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gaaattaaca aagggatccg agttagcccg aaataattat acataatcat atacgacact 180  
gaccggaaaa gtataaattg cgcaactaaa tgcgccaacg ctggtttcac tttcattagg 240  
tgctaccccg taaaaccttt gtttccactc cagtagaatc ttcttgacag acctgtttct 300  
cagtcttgac tgggtggattg atcactgatc catgatgcac cgtggcactg gatttgaaag 360  
gtcaagctcc gttaggaagc aacctgatg gatctgaggg cctgtgaaac agtaagtgtg 420  
ctacagaccg atcaatgggg t 441

<210> 3655  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057c08a1  
 <400> 3655

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 acgtcaaggc caagattcag gacaaggaag gaattctcac ggatcagcca cgtcttatct 180  
 tggccggaaa gcaactcgag gacggccgta ccatcgtcga ctacaacatg cagaaggagt 240  
 caacccttca gcttgtgctt ggtctacgtg gtggcatgca gatcttgggtc tagactctga 300  
 ctggcaaaac cataacccta gaagtacaaa gctctgacac cattgacaac gtcaaggcct 360  
 agatcc 366

<210> 3656  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057c08d1  
 <400> 3656

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 ggagcttcct aaatcatcag ccatccctgc cgtcatggga catagaagat ccaaatttg 180  
 gatgacgggt cattttacag ttccggtaca ggattttag catgggtgaa gtcccttaaa 240  
 cgcaaaacac ccaaattctt ataataccta gccgtagcag ttctacagcc atctagagcc 300  
 atgggataac agccagatcc agcttcatca gttgaagagc aaagcagga aattgattga 360  
 caaccaggcc aacttcccat acattcacat aagcattgta aaggccggca gtaactattt 420  
 tgcattggatc catgt 435

<210> 3657  
 <211> 423  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057c09a1

<400> 3657

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gaggccttcg aggtggagga ggcggtggcg ctggagtcgc agacgatcaa gcacatgatc 180  
gaggacgact gcgccgacag tggaatccct ctccccaatg tcaccagcaa gattctggcg 240  
aaggttatcg agtactgcaa gaagcacgtt gaggcgaaca gtgctgatga gaagcccagt 300  
gaggatgtgc tcaaggcttg cgacgtggat ttcgtcaacg ttgatcaggc cactctcttc 360  
gatctcattc tggctgaaac tacttgacca tcacgagcct ttgggacctt acttgccaga 420  
cag 423

<210> 3658

<211> 426

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057c09d1

<400> 3658

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ttcaacagaa cattagacga ccaatgttta atcgaatctc cagatgtgat aacaaacaaa 180  
ttgcacaatt ataaaagaaa ccatactcgg gtgaatcacg ataactgtct atataggtcc 240  
cagagcttgc tggacatcag ccttcaaatt ctccaaagct tcaactgcgg agccgcatcg 300  
aaccattgtt gtgataaatt ttgcactggg ccctttctga ctgcggatga ccccttacg 360  
accacatgcc tgggagatcc acaatgtctt aacaggcacc ctacgaggcc gtcatttatc 420  
ggattt 426

<210> 3659

<211> 340

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057c10a1

<400> 3659

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gtttccttcg gaagcgggtg gacactctcg agtgacaga tcaacgagct ggctctcggg 120  
ttggaaaaaa gtgagcaacg gtttctgtgg gtggtgaaga gcccacacga agaaatagcc 180  
aacgcgacgt acttcagcgc cgagagccaa gcggatccct tgcagttctt accggaaggg 240  
ttcgtggaga gaacaaaagg aagagggttt ttggttcagt cttgggctcc gcagcctcag 300  
gtattggggc atccatccac ggttgggttc ttgaccact 340

<210> 3660

<211> 351

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057c10d1

<400> 3660

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tacatgccat attttcacat cattacatag actgtgcaat tccaaaagca agatttaact 120  
taacaagatt accactaagt aaaaccctc aatctctac taccaccct ttaacattgt 180  
tttgtaattt ataatgaaaa gcacaataaa acatcgatca cccactgtga atactctaaa 240  
tcaaaagcaa aatgaactct tcactttgac aaaatcatga ttgcagctca agggtcgaag 300  
tcctcttggt catcttcaaa ctctctctgg ttctggtaac cttccatgga g 351

<210> 3661

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220057c11a1

<400> 3661

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tctcccagtc gttgagaacg ccgatctcct tgtaggatag gccgtcgagg gagggggaga 180

tgctgctgta gttcttgctc atgctggcga gggcgcttg tggcgtatgt gccggcgaac 240  
atgggtgt 247

<210> 3662  
<211> 454  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220057c11d1  
  
<400> 3662

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aactaatatt atggacacgt accgcagtac caattgttca aacatagtta cctagaaacc 180  
aacatgggga catagtttat acattgacaa aagttgctgt agtttgtgac tttgttacat 240  
tattatcaca atattttctc tcaagtgaat ctaacatgcg attcatggaa ctcgatgaat 300  
tcggtatgga aaacgcaaga ttacgaaaag cttaatggga tccatgttca ctggagctac 360  
ctgtagacaa actttctcaac ttctgccaga actgcctttt cttcccaata attagaggcc 420  
ctgaacgaga atactgcctg aacgactcaa attc 454

<210> 3663  
<211> 318  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220057c12a1  
  
<400> 3663

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ccacagaccg ggtggcttgg acttggccat gaagcttcac tatcttaagg tgggtgactt 180  
ccttgctagt gaggtgcac aagacctaac cattatgaaa atttacgagg ccatgttcac 240  
tttgcttaac cattacttca tcacatgtgg ccgcttcgg cgatcagatt tcggtaggcc 300  
cttaatcaag tgcaatga 318

<210> 3664

<211> 402  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057c12d1

<400> 3664

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agaaatcccg ttttgattga cacaaaaatt tttatcacgg tctcacgagg ggaatttctg 180  
aaactggacc ccgcacaatc taaccatttc cccacgtga ccctcccaa ccccaacatt 240  
tgttggaacc ttatgaccct tacaaaaggt tcaaggcggg taaaactggg gggaaggccg 300  
catttttgaa aacctgaaaa gccgggtaca agggggtaaa aaacggggcc cggctttagg 360  
ggagccccc tttgaagcgc cctatccatg gcgcaatggg ga 402

<210> 3665  
<211> 173  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057d01a1

<400> 3665

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tgtattggtg ataggagtag ctgaatgcag aaaaataaaa gaaaatgagt tagttgacag 120  
ttttggagga ggtggattag gtggtggtgg cggaggaggt tttggtggat gat 173

<210> 3666  
<211> 473  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220057d02a1

<400> 3666

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tcccatccct gacgtcatga aggcctctat ccgccccgac atcgtcaatt tcgtacactc 180

gaacatctcc aagaacagcc gccagccata cgccgtcagt cgtcgcgctg gtcaccagac 240  
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 cgccccgacc aagatctggc gccgctggca taggaagatc aacgtgaacc agaagcgcta 420  
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<210> 3667  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220057d02d1

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 tgggtgtgct ctttctcacc ctaatgtttt acatcctcct tctttgctta aaatgtgatc 180  
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 tatggaatgg gggccctagg cctataaagt gtctgtgggc ttcacctttt ggccttctta 300  
 aacgttttct tggcctagta attgtttttc ttcaaagtgt aaccattacc agattttccc 360  
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<210> 3668  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220057d03a1

<400> 3668

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 gttaccgaag gtttaatgag acacgtggac ccattcact ggttggaat ccagtttatt 180  
 ctccaccctc acgcacgtaa tcatatccct ggagtcaagt tcaagcatcg ataggaccaa 240  
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acggagcctc gaccaagaag aatcgcagtg agaagaagag ggggtcagag tgagaaagag 360  
 atagagagaa ttcgtaaacc ctaatttcgg aaagatcggc gatgactgcc tccaaggatc 420  
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<210> 3669  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057d04a1  
 <400> 3669

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 gaaattacat tatcaagccc cttaaaaagc ctttatagtt tatacagcaa gatgaaacga 180  
 aaggatgtaa gcattgataa agtatatgat gcacgtgcat taagagtagt tgtgggagac 240  
 aagaatggaa ctttacacgg tcctgcagtt cggtgttgat atagtcttct cgacattgta 300  
 cacaggcttt ggactcccat agatggtgaa ttagatgatt acatcattca tccaaagcct 360  
 agtggctatg agtccttgca cactgcagcc caaggttctg acaacttacc ttagaagtac 420  
 aaataagaca cagaggatgc ttgagtgtgc tgaacatgga cttgctg 467

<210> 3670  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220057d04d1  
 <400> 3670

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 tccgcctcga atctaccaga tattttgaac tctatggcat acaaattcta agggatggtt 180  
 tggatgaggg gaagaaaaag agaaatggat ggaaaattaa aaaactttaa ggtgtgccta 240  
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<210> 3671  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057d05a1

<400> 3671

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taattttgtg atcagaatta ttgagctgaa caaaagacaa tgggattgtg ggaagctttt 180
ctcaattggc ttcgcagcct ttttttcaag caggaaatgg agttatctct aataggactt 240
cagaatgctg ggaagacttc ccttgtaa at gtagttgcta ccggtggata tagtgaggac 300
atgattccaa ctgtgggatt caatatgagg aaagtgacaa aagggaaatgt tacaataaag 360
ttatgggatac ttggaaggca acctaagttc cgcagcatgt gggaacgtta ctgtcgtgcc 420
gtttctgcta tcggttatgc tgctgatgct gtcgatccag ataaccttag catatcaaga 480
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<210> 3672  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220057d05d1

<400> 3672

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aaaaagattc attcaagact gaatgggtgta gaaagtgggtg gctgaagaat gatagagggc 180
gaaccaccgt attatacaca aaatcatgct gtaggctgct ggtagcggc atgagcatct 240
atatgggggtg cttatgcgag gccattatag gtgggacccct taggatgtac atcaggtgca 300
ccttctgatg cgtatgcagt tgctcccgat gctgcgatca tatccacatt cggattatct 360
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<210> 3673

<211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220057d06a1

<400> 3673

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